

acaaggagca tcatcatcat catcttctcc acccaatgtt gggactgaga attggggaac 180  
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 aca 243

<210> 18556  
 <211> 242  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958354H1  
 <400> 18556

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 caccctaaac gacatcatgt ttggggggcc attttgattt gaggtgcgtt gagacagaaa 180  
 acattaggcc accatagttc tcttctctct cgcaatttcc atctggtctc aatttttctc 240  
 gt 242

<210> 18557  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958355H1  
 <400> 18557

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 attttctactg caattttcac accacacaca cagcacaatc atggaagttg atagtaggtt 120  
 tctgatcact ggcctcctcc ttgtggccac aatccttggtg gtcaagctca tctcagcctt 180  
 catagtgcc aaatccagaa agaggggtacc cccaattgtg aaggggtggc ccttaattgg 240  
 a 241

<210> 18558  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958356H1



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tttctgtgtc tgccatgctg gccagtatgg atgaaaagcc tgataaacct aaaaaggctc 180  
cttcttcctc cagtaagccg aagcggaaat ctgctccaaa agcttcaca tacaccga 238

<210> 18562  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958362H1

<400> 18562

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ttcagcagtt ttcagggata aatgggggtc tatattacac acctcaaata cttgaagagg 180  
ctgggtgtga agttcttctt tcagatatag gcattggctc agagtctgca tcattcctta 240  
tca 243

<210> 18563  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958363H1

<400> 18563

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gggcctttga tcacatcaaa tacctcaatg gtggttctga gattcagctt catcttgata 180  
agtacactgg tactggcttc caatccaaag gatcctacct gtttggtcac ttcagcatgt 240  
acata 245

<210> 18564  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958364H1

<400> 18564

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 taccacaagt gctcctggag cagttcctgg tcccacaact aatttaaata taggaatgga 180  
 ttattggggc acaccaactt cgtccaccat tcttgcattg catggaaagg ttccttctac 240  
 tgcagttgct ggagg 255

<210> 18565

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700958365H1

<400> 18565

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 ggctcgacgt tgctattgac atgggtaatc catttctcaa tctcactgtt gatggtttcc 180  
 ttaagatcgg agctgtcgca gccacgcgat cagctgctga agatacttat catattatcc 240  
 aaaagggt 249

<210> 18566

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700958367H1

<400> 18566

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 agtaatatgg ggtcatagaa ctgtttatca gaggcagcaa atcagaagag tctatgagga 180  
 aattttccag gaggatcttg tgaaacgcct agagtctgag atcaaaggag actttgagaa 240  
 ag 242



<210> 18567  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958329H1

<400> 18567

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 acacactgta agcaggccga catcgacttc agagggcatg aggagatctg ctctgaatct 180  
 ggtggagtga tggattatga agaagatcga agccgaccaa agaggaggcg gcatccaatt 240  
 tctt 244

<210> 18568  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958369H1

<400> 18568

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 taatgtcatt gactcattgt gggtcttctg tacgtcaaca ctatgttacg aatggcagtg 120  
 aatgagcacg gtactatcga tatgtatgaa tgaataatat atgtctggat gaagattcgt 180  
 tgaaagcaag cataaatatt gctttcaaac gtataaacct aagaaaatgt actacttga 239

<210> 18569  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958370H1

<400> 18569

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 cgttcaagga gtttatcaag agatgcagaa aatccaggaa acaatttgta tgtgacagga 180

ttgtctccta ggatcaccaa gagagaactg gagaaacatt tttctgctga gggaaaag 238

<210> 18570  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958290H1

<400> 18570

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acgtcttttg gaattaaagc tgcaaatgga gttgtcattg ctaccgagaa gaaattgcc 180  
tctatattgg ttgatgaagc atcagtcag aaaattcagt tattaacacc aaatataggt 240  
gtcgtat 247

<210> 18571  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958294H1

<400> 18571

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ctttcagcct ctccattcct tcaaccttct tcttctctt gatctctgat ggagacgttc 120  
cgtgttttagt agcaagggtt agttgaggcc ttgtgtttgg aaacgtacgg tgtcgttttg 180  
gagttgggaa aacaaataat tctgagagat ggcaaccacg aaccttttg atttgttggg 240  
tgacgac 247

<210> 18572  
<211> 262  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958301H1

<400> 18572

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<223> Clone ID: 700958304H1

<400> 18575

cttctttttt agctatccct ctcttgaaaa atctagatct cgtgcttcct tgatctacgt 60  
 tacgctttta gtgaccggat acgtatggat ctgaaccaga tctacacgcc gatgggtggtt 120  
 ttggcctggt ctttcataga tctgatgcat ggaggctcag atctactgta cagaggtgtg 180  
 cgattcatgt tcgtctctct tttggaatct gtttcgtaga aagtcgtttg gtcttccatg 240  
 tcgcatggc 249

<210> 18576

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700958305H1

<400> 18576

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 aatcggtctt tactcttcag actgtgtaaa ctttacttga ccggtttgag agccgcctta 120  
 aagtgtctac agcagtggct cctgccaaaga atttgtctag cttggataac atcgatcctc 180  
 ttcttaaacy gggtgcttcc cccaagaaaa gggctactcc ccggagtctt gtgagaagca 240  
 ggcaggcaaaa 250

<210> 18577

<211> 248

<212> DNA

<213> Glycine max

<223> Clone ID: 700958307H1

<400> 18577

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 ctttcgccat tgctattcca tgccttgagg ctggcattgc tgagtttgac gattttctca 120  
 aagcccaagc tgatgaagcc cataaaattg ctcttgattc ctatgtccca gagccccacg 180  
 atgtcgccca tgaactcaat ttccatgttc atatggcact ggaaaactcc acaaggaggg 240  
 aactaagg 248

<210> 18578  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958308H1

<400> 18578

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 tcaccatggc atcatcagca acaaacactt ggattaaaac cacactccct tctcttccga 120  
 catcttctcc gactacctta aataataggt ttccttcccta tctaattcc aattccaatt 180  
 ccaacaccat ctcatgatcc cttcaaacac tccacttccc caaaaagtac caacgaacct 240  
 ccacaaccac 250

<210> 18579  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958309H1

<400> 18579

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 agatgaatcc atggaacatg agaacttcca agttactctc tcaacaactt gcttatcctc 120  
 cttatcgctt ggtagaagag attccaaaca tgggaaattc cagttgtgtg agcaaggagc 180  
 caagaggttc acagatgaca atcttttatg gtggccaagt tcttgtcttg gatgatattc 240  
 aagctgac 248

<210> 18580  
 <211> 144  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958310H1

<400> 18580

attcattcaa gattcagcaa gtgcgttttg gaagcagaga ccgaaatact tcgagatggc 60  
 ccgtacaaag caaactgctc gtaagtcaac tggaggaaaa gctcccagga cagcagcttc 120

gcaaccatag gctcgcagcg taag

144

<210> 18581  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958311H1

<400> 18581

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aggatcagaa gccatgcttc tttcaccatg tttgcaatgc ttgttggatt gctctctcag 120  
agccttgta ttcctgtaat atccaccact gttgcagatc agaagaacta ctacacccca 180  
gatccacatg ctggaagtcc cccacaggt ttctccgatt ctctgtgctc acacaatagt 240  
agt 243

<210> 18582  
<211> 244  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958312H1

<400> 18582

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tgctgttcca gatatctcgt atcaccgtct taccgacaag gatgaatttg tcgtgttagc 120  
aacagatggg atttgggatg ttttatcaaa tgaagaagtt gtggacattg tagcacctgc 180  
tccacggtct agtgctgcta gagcactggt tgagtcagct gttcaggcat ggaatacaaa 240  
atctt 244

<210> 18583  
<211> 244  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958313H1

<400> 18583

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<223> Clone ID: 700958316H1

<400> 18586

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atgctcagtg gtattgacct tgattcagga atgaggggtga ttgatgatgg attcagggtg 120  
tcaaagtgtg tccaaattgc ttgtttatat cttgaggtat tgactctttt ctgcaatgaa 180  
atctatatatt gattgaagta gcggctattg ggagtcatag caagccacac aagaacatga 240  
gtatccatat ctat 254

<210> 18587

<211> 129

<212> DNA

<213> Glycine max

<223> Clone ID: 700958318H1

<400> 18587

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cattgaggc 129

<210> 18588

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700958319H1

<400> 18588

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agtctgctgc tttgtacagt ttgactactt ctactactac tgcatagtaaa gagaattaag 120  
aatgtgaaca caggggattt gcactgctat cgcgagctac acttctgttg cataatgggt 180  
ttgttttatg agatatgtgc ttctacactt aacctatggg gaccatgtgc gtgctgcctc 240  
tgtgctg 247

<210> 18589

<211> 249



<212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958320H1  
 <400> 18589

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 aagcctactt caagagatat caagtcaagt tgaagagaag aagagaggga aaaaccgatt 120  
 accgtgccag gattcggttg attaatacagg acaagaacaa atataacact ccgaaatacc 180  
 gatttgttgt tcgcttttagc aacaaggaca ttgttgacaa aataatatct gctagcattg 240  
 ctggcgata 249

<210> 18590  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958321H1  
 <400> 18590

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 gccctacaat ctcaaagaca aacccatcat tcaaagtcac aaccgatacc taaaatcctc 120  
 attccaatca aaaccaaccc caccatgccc acaaaattaa gtcacaaat taaagcaccg 180  
 atgatcctca atttgatcct tgtgcttatt tgtgtcacta ctccaatcaa aggtgagaaa 240  
 tcaaggaa 248

<210> 18591  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958322H1  
 <400> 18591

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 ggtttgcacg gctgggcttt taccctgact aactttgcc aagatgtatgc atctgagttt 120  
 ggagttgatg aaggaaaaat gatggaaagg ctctgggggtg aaaacttctt tgatccagcc 180  
 acaagaaat cgtccggcaa gaatcatggc tctgctacct gcaagcgtgg gtttgttcag 240

ttctg

245

&lt;210&gt; 18592

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700958324H1

&lt;400&gt; 18592

ctcagttttct ttcttcaacg tttccatcat acacagatcc gaatcctctc tcaagcccta 60

atttcccctc atttccatgg ccacagaaga agacactgtc gcggtggaac ccgctcccga 120

acctgcctcc gccgatcctc ccccgaggga gaaggaggag accaaacctg aagccaaggc 180

taagaaaacc aaggagccca aacctaaaaa ggtttccaga cctcgcaacc ctcccactca 240

tccttcct 248

&lt;210&gt; 18593

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700958325H1

&lt;400&gt; 18593

cagtttttga cttgatggca atgctattac tgtcacaggc taatttatta cttcttccca 60

gaacatccac tgatagtcac cagccaaaag tatcagaaga aagcagacga gcttctgttg 120

atatcttctt aaaggcagct gggtatcttg actgtgctgt aaggcatgtt cttccacagt 180

tgcctggcga actgaggaga aacttaccag tggatctcac agaaggagtt cttggagcac 240

tct 243

&lt;210&gt; 18594

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700958289H1

&lt;400&gt; 18594

ctggcgactc agatcctctc tcgcatcttc cccaaaaccc tatccccctt cctctcccgt 60

tctctctcca ccgccccctc tctccctcc ctctccgogc tctcttctt ccgccgcac 120  
tccgttgccg ccaacccctc cctccaccgc gccctcctcc ccaact 166

<210> 18595  
<211> 242  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700958327H1  
  
<400> 18595

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ccaacttttt ttcaaacaaa ttcgattctt tcttcatttt taacctaat ttcttttcga 120  
tccaaaaaat ggctctctcg cgcgttggtg ctcaatcgtc gcaatcgaat cttctgaaac 180  
ccctagcgtc gtacttatca ctacgacgcc gttcggtttc gacttcgtca gaccactca 240  
cg 242

<210> 18596  
<211> 243  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700958328H1  
  
<400> 18596

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ccttttctc ctcatcttgc agcttctca ctgctccatt tcatattatt attattatta 120  
ttgatttttg atattgtgtg taaaacaagg gcagttgtga aaattccacc aaatgtttca 180  
gttcagcag tgttggtgtt tggagattcg atcgtggaca ctggcaacaa caacaacaac 240  
ttg 243

<210> 18597  
<211> 258  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700958249H1  
  
<400> 18597

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 caactggagg ctatttttga ccttctgat ttcctcgctc tgcaaaacat tcgtaaagct 180  
 ctgcaagaca tgcttcttc cgattttcttc tcttcttggg atttcaccgc agacccatgc 240  
 aacttcgccg gcgttttac 258

<210> 18598  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958254H1

<400> 18598

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 gaagagttac caactcaaac atcgcttccc ctcaccttct ttgatatact atggttaagg 120  
 ttaccacctg ttcaacgcac cttcttctat gaatttcttc acccaacca tctcttcttt 180  
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 cttgctggac acc 253

<210> 18599  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958257H1

<400> 18599

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 tcagattcaa caccaccttg cgtgtcgcca atgggaaaag ctttcgacat cggagccgtt 120  
 ccgttcaacg ccgacgggtg ggggtccgccg gacaacgcga cctcaggcag caacaacaac 180  
 aacctccctc tgaacgtccc cttcgccccc ttctcccgt ccgacaaatt gggccgcac 240  
 gccgactgga 250

<210> 18600  
 <211> 251

<212> DNA  
 <213> Glycine max

<223> Clone ID: 700958258H1

<400> 18600

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 ttttatacgc ctctgagcat catctacatg agataaatgc catttatcct tagtgttttt 120  
 gttttcattt gttgaataaa ggaagtgtg ctttgtgttc cacgggaaca atggagaggt 180  
 acaagttaat taaggaagtt ggtgatgga cttttgggag tgtctggaga gctattaata 240  
 agcaaaccgg t 251

<210> 18601  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958259H1

<400> 18601

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 accaaccaat caagaaccat gcacatcttt ttctctgcat aacttctccc gccctgcc 120  
 acatgacttg catgcatgtg tgtgttaact cttcttcaact tttacatgca tgcttgaggt 180  
 tttagaggtt caacattaga tgggcttata aagtcacatc atacacactc acatatatat 240  
 atatatggtt aat 253

<210> 18602  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958262H1

<400> 18602

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 gctcatggaa atccttcaag gtgtgttctt cttggcgtga gttgcgggtgc aaatattgca 120  
 gaccatgtgg ctgaaaagc tgtagaagca ggcaaacttc tggacctgt taaggtggtg 180  
 gcacaggtec tgatgtatcc attttttatt ggaagtgtgc ccaactgttc tgaaataaag 240

ttggcaaatt ctt

253

<210> 18603  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958263H1

<400> 18603

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ttcaggaacc atgaaaaatt acctgtgtac cagtgtattg cagtgtaaaa aggtcttaaa 120  
accatgataa tttcaggaaa tgacaaacta tgtgccaatt actccattaa tcaggtaact 180  
ggtggaatt tatttccttg atatgtaaat tctactattg ctgcacaga ttttgatttt 240  
tcagaatgtg agaa 254

<210> 18604  
<211> 267  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958264H1

<400> 18604

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acttccattt cacaagaggc tttaaaaccc gaacccctg aaattgctca ggaaaatcag 120  
tattcatttc catcacattc tcatggattt aattatgaaa atgccaaca gccggaggtc 180  
ccatttcctg tttcacagac cagctcacag aatcagaatc ttgctccctt ctctggtgta 240  
atgcaggcac atacaaattc tttgccc 267

<210> 18605  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700958265H1

<400> 18605

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<223> Clone ID: 700958269H1

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 tgggtggattt ttaaattccat atctcacaaa tatcatggag cttctgggtgc tttatcctga 180  
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<213> Glycine max

<223> Clone ID: 700958270H1

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tttctctcat cctggtggtt ggagtggcca taggtgtggt ggtggccgtc aacaagaagg 180  
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caaccccgcc tggcctctgt tttgtgatcg aaagccataa aaagttgttt tcgatcacia 180  
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<212> DNA

<213> Glycine max

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ttcttgaact ccgacttctt caagacctcg agaacaatga tgaatgtagg aaaaatggga 180  
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ttctgtgcct gctggctcct ggtgtcaacc attattccaa tggcacaaagg ggaagtgtca	180
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atcaaccctt ccaccaaca catgatacag ggntatccca gcagctacta aggaagacgt	180
tgatctcgct gtcgctgccg ccaaagctgc cctctccgc aacaagggcg ccgattgggc	240
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 tgtcgagtac atccagtgcg acgtctccga tcccgcgcac gccgaagcca aactctccgc 180  
 cctaaccgac gtcactcacg tcttcttcgt gtcgtggacc aaccgctcca ccgaagcaga 240  
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<223> Clone ID: 700958277H1

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 aagagcgttt cgatgacggg tgggaaaatc gatgggttaa atcagattgg aaaaaagatg 180  
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<223> Clone ID: 700958278H1

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 ttgagaaggc gaagaagaag ctacagaggct tcatcgctga gaagagatgc gctcctctaa 180  
 tgctccgttt ggcatggcac tctgctggaa cttacgacgt gagctcgaag accggtggtc 240  
 ccttcggaa 249

<210> 18616  
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 <212> DNA  
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# Appendix 1

[illegible][illegible]

# Appendix A

# Appendix A

# Appendix A

# Appendix A

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# Appendix A

# Appendix A

[illegible][illegible]

# Appendix A

[illegible]

# Appendix A

# Appendix

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 tcgagagcag tgctattggt ggctatgtgt gtgcttccgg ccatgggtgt ggccattcgc 180  
 ccagcaaaga accctttttg cgtgaagggt cgcgtctact gtgacccttg ccgtgctggt 240  
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 acggtcttcg cggtttcatc ggccctagac atgtcgataa tctcgtagca caacgccccac 180  
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aattcctggg gttttcaatg gtgggtgcatg gcagggtgcc cacgccactt tctacgggtg 180  
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ctttataacc ataaagtgcc ttcttttttc ttcaccacca ctccattact ctcttcacac 180  
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tgaaaatggg taaagggatg 260

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<212> DNA  
<213> Glycine max

<223> Clone ID: 700958214H1

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 tcggaccttt ttcgcttctc gattcgcttc cgtagccggg cgatttgagg acccagaaaa 180  
 gaacgaaccg aacgttttat attttttcgg ataatcaatc gaagatgtct cgttgcttcc 240  
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<223> Clone ID: 700958216H1

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 agaataagtg taatgtgggt tatgctttta tcaatatggt gtctccttca cacatcatcg 180  
 ctttctacaa ggcctttaat gggaaaaagt gggagaagtt caacagtga aaggttgctt 240  
 cactggcata tgcacggata c 261

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<223> Clone ID: 700958219H1

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 atccatcatc catctctcga gctgttgata ctcttggggg aattcaagcc atccagaagg 180  
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258

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 ttttgTTTT tcttggtttt ctttttaagg accaaagtta tacttttagag gaaattatgt 180  
 tagatgtgga tgcttggttg ttagtatttt atgcaagagc cttgtacttt tcccgggtaa 240  
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 gattggttct ttgcacaggt taacaggaag aaagacaatg gcactgacat aggaaccaca 240  
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 atgaaaaata ttgggttgtt ttttcttgtg gtggtggcta cttttgtggt ggcagccaca 180  
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 aattagctta cacctggagt caacgtggtg ctactgcac tagatgcctc gacaggtatc 180  
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 ccttatagca ctaattggat caactcaagc tcaattgcag cttggtttct atgccaaaag 180  
 ttgtccaaag gctgagcaaa taattctgaa gtacgttggt gagcatatcc acaacgctcc 240  
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<213> Glycine max

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 tgttttcaag ggtttgattc tagggttact tatgcagttt ttgggaattt tggctcagtt 180  
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 cacgcgttat acgtaaacga aatacggggg aacgagtga agaagaaga gaagaagaag 180  
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129

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 cagccatgcc aag 253

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gccctcgacg acgccgtttt gtcggacaac aacgccgaag cgaaggccgt tggagatgac 240  
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<211> 258

<212> DNA

<213> Glycine max

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gaccattctc ttctttctct ttttctctct ctctctctct ctccctccg ccattggctga 180  
ggataaggag atgtctacct ctgtcatcaa tgggaatgat tccctaactg gtcacatcat 240  
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<212> DNA

<213> Glycine max

<223> Clone ID: 700958177H1

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<212> DNA  
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<223> Clone ID: 700958178H1

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tcagaggctg accctttgaa gcggttacca ttgaaaaaac ctcagtttag tctcagccag 180  
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aaaagattgg tgctgtcgtc agactcagtt atggcctcgg gatttatggt gccatggcag 180  
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261

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ggatgggttg ttgtggacag tggctctgtc tttatgcttt taattcttaa ggaaattttg 180  
tactattgta tgggtgttggc cctagcagcc tttcttttta tccttcttct ccaatatgat 240  
ttacagttaa taccttc 257

<210> 18653  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958182H1

<400> 18653

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acatgattca aaagattgaa aacaaagagt acatgggatt tggagacctt tgcagatata 120  
tgaaggactc caaagtctat taggaaagcc acttatagtg ggtgcgaaca atctaacatg 180  
gacattgggtg aagtttatca actctgagag ttgtgatgtt ggtagtacta agaatgactt 240  
attggcagag aaatacagc 259

<210> 18654  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958184H1

<400> 18654

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<223> Clone ID: 700958187H1

<400> 18657

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cttgtttcag ttctttcttt ggtcactgct ctctaaccta gttccacatt ttcactcacc 60
aagtctcatc tttaagttca tattttctctt cattcacatc acttctctga tctgtctctt 120
cacactcttt gaccccgatc aaaattttga cccctttttc tctctctggt aatgctttcc 180
atcaagccat tcacagaaaa acccctgttt ccatctgggt ctaccctctt tctggatttt 240
tgttatctga ttttgt 256
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<210> 18658

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700958189H1

<400> 18658

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caactcactc ccaagagtga cgtttattca tttggaattt tgctttttaga aattgtgaca 60
gcccgccgtc ctgttgagtt gaagaaaact gtcgcagagc gggttacact cagatgggcc 120
ttcaggaagt ataatgaagg aagtgtggtg gaacttgtgg atcctttaat ggaagaagct 180
gtaaacggag atgttctgat gaaaatgctt gatttggcgt ttcaatgtgc agccccatt 240
cgaacagata gacct 255
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<210> 18659

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700958190H1

<400> 18659

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agatcggcga tgactgcac ccaaggatcgc aagaacttcg tctacatcgc caaactcgcc 120
gagcaggccg agcattacga agagatggtg gaatcaatga agaacgttgc gaatctcgac 180
gttgaactga cgggtggagga gcggagattg ctttctgttg ggtacaagaa tgtgattgga 240
gctcgcaggc gtc 253
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<210> 18660  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958191H1

<400> 18660

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aatatttgtc gaattggctg aggtgatgga taagataaga aaagaagggt atgatcccag 120  
agtttcggag gtcttgcttg agatggatga tgaggaaaag gccgttcagt tgcttcacca 180  
tagtgagaag ctggctcttg cttatggctc aatcaggata ggcatgggt ctacaatctg 240  
gattgtgaaa aac 253

<210> 18661  
<211> 208  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958192H1

<400> 18661

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ttttccaatt tccaatttcc agtggagtag aacacattca ttcaattgca cttttttata 120  
atttcatata tcttccaata ttgctgggtg ttagcactca caagagacag gctcaactac 180  
catacaaatt ttccattccc ggcatctc 208

<210> 18662  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958193H1

<400> 18662

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tttattctta ttgctactta ctttttattt ctatccaatc atccatgccc gaggaacccc 120  
aaacaccagc ctccgctgaa gaagtgggtc ctgttctctg ggacacgcca ccaactaccc 180

aatctgaagc tgaagctgaa gttgaagcaa atgcagaaag catcgaagaa gtggtggcgg 240  
aagcagagca gg 252

<210> 18663  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958194H1

<400> 18663

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ttttctccgt ttctctggcg accaaacgga ggagaagaac gcattctgaa aacgattgga 120  
aaatgctggg aactgcactg caattcagcg tcgttcgcgg cgaggatcgg ttttacattc 180  
cgggtgaaggc gaggaagaac cagaatcagc ggaaacagag tcacagagcc aagaacaacg 240  
aacctgaaaa cgcgg 255

<210> 18664  
<211> 272  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958201H1

<400> 18664

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agggagaaaa acaaccaccg tccaaaccac caccaacaac gtacgtctta cgttgttaca 120  
tgggcactcg tggtatocca ccaagaatcc taaggaaagct togtacaac accgccacaa 180  
aaccctcaa ctctctcac cctctctct cccgtctct ctctcttct ctctgctcc 240  
tacctgctcc gcttgctgc cccgcctg ct 272

<210> 18665  
<211> 264  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958202H1

<400> 18665

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 caacaatggc cgcagcaaca caactccact taccctctgg attccgattc caccaccacg 120  
 atgaagaact cgtcgttcac tatctctgcc gcaaattgcgc ttcgcaagaa atcgcagttc 180  
 caataatcgc cgaaatcgat ctctacaagt acgacccatg ggaccttcca ggaatggctt 240  
 tgtacggaga gaaagagtgg tatt 264

<210> 18666  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958203H1

<400> 18666

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 cagaataccg gggaaactgc tgaaatcaag aagttaggag gtttaaccct aaaggggtct 120  
 gctgattcca tgagcattaa aagtgggttct ggtgcttct catctgttct cgacaaaagta 180  
 gttcatgctg ctaatgagaa cataggctca caggaaagct ctattgatct tgacaaaaag 240  
 acgtcggaag atggaagtgt gaa 263

<210> 18667  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958204H1

<400> 18667

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 tttggtatcc aaacagacct catctctaca ttttttcttt accagcagaa cagaagaaac 120  
 acgttcgttt cgtttcgttc ccatggcggc ctccgtttcc gcgtcctccg cgattgcttc 180  
 tttgaactcc gaactctcca cgcgcttgcc accctcactc gcctccgcat cttcttccgc 240  
 caagcaatcc tttctgcaat tc 262

<210> 18668  
 <211> 260

<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700958206H1  
  
 <400> 18668  
  
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 cctataatgg ttcattctgct cctacaactt cacaaccact tgcagatttg gcatttcctaa 120  
 gtactggcat atctgggtcaa gctcctgctt ctagcttggc aattgatgat ctgcttggtt 180  
 tagattttcc agttgagact gcagccatgc cttcacctcc tccattgaac ctaaaccctaa 240  
 aagctgtact ggatcctggc 260

<210> 18669  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700958207H1  
  
 <400> 18669  
  
 cggaacacaa accccgacca acctctctcc cccaccttcg cggtctgatt cagctgagag 60  
 tgggtgggct ctgcaaaaat tagctgcatg agctgggttg ggaaactccg tttattctcc 120  
 aatttcaatc cctttcatct cattacttct ttgttaattt ttaccctcca tttttcaccc 180  
 caatcgcgct tttccctcca acccctgcta ttgatccacg ctaaaaccaa tcccaatcgt 240  
 aatttccggt tttcgtcac 259

<210> 18670  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700958208H1  
  
 <400> 18670  
  
 aatactttat aataataata acaacgagaa gttgatacaa acgataaaat aaataagtat 60  
 catcgtctcc tccgttattg gacatatttg agtcttcttc gattcacgct gtaaccatca 120  
 tctgtgatcg attctaaaat cttcatcaag aagatgcagc tacaagatgg ttctgttggt 180  
 aaagtcatta ataacctctc acaagttctg gcaaggggtg tgggagacca gagcatcttt 240

256

<400> 18671

<400>	18672
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<400>	18673
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ttgctaccat caaatcatta gccattggct aaacactcat gcggttgtgg agccattcgt 120  
 catagcgaca aacaggcatc tgagcgtggt tcacctatt taaaaacttc tgtttcctca 180  
 ctatcgtgac accatgaaca ttaattcact tgcccgcaaa tccttgggtca atgccgacgg 240  
 tattatagag aaaacattct t 261

<210> 18674  
 <211> 80  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958144H1  
 <400> 18674

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 aaccttttcc acacaaattc 80

<210> 18675  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958146H1  
 <400> 18675

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 attcttgaac agattggaag acgttccttt gcttcagctc tacttgtcag gcacaggcac 120  
 gaaaacagaa ggtatgtcct taagaagata cgtcttgcac gccagactga tagaactcgt 180  
 agatctgctc accaggagat ggagcttatc tctaaagttc gcaatccatt tatcgtagag 240  
 tataaagatt cctgggtgg 259

<210> 18676  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958147H1  
 <400> 18676

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cctgtttttc caaccacccc atttcttaaa aaaactatatt ttccttcaag ttccttcac 120  
 atttcttgta gttttgagtc tttgggttatt ggggtggttg cacttgcaact atggaaactt 180  
 gcacggctct gttgttttta acggccatca cagcatactt gatatgggtc acgttcacat 240  
 cacggtcgct gaagggtcca 260

<210> 18677  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958148H1

<400> 18677

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 ttttcttcat tttcttccca ttccatcttc acttccttcc ttttctcttg tcattttgga 120  
 ttttagatat tttctgcttg gctggaccag taatattatc ttgtgggtgct tgtgatttta 180  
 gattagatat tttctgttta tcagttacca tgactacttt agttgtaact gtgcctctat 240  
 tctgccattg tcactatatt accgctatct ttg 273

<210> 18678  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958149H1

<400> 18678

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 taatcctccg tcaagacaag cctcaactag aggataatgc tggtgagact attgcaaaat 120  
 gctgtcatga actgcagatc ctggacctca gcaaaagttt caagctaact gatcgttcac 180  
 tctatgagct cgcccttggt tgtcgcatc ttacaaaact caacatcagc ggggtgttcag 240  
 cat 243

<210> 18679  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958151H1

<400> 18679

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 gataaaacat tgatagcaat ggatttcttg ctgccatggt attgttcgca tccaaattcc 120  
 tgtttagcaga atctatatta gacatgttct tcttgagcag ttgttccaag gtattactgt 180  
 ttgatccatt gctctcatag tgccatggct gagtgtagga tcctggaatg tgatctagaa 240  
 cactgtttct attcatcaag tggc 264

<210> 18680

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700958152H1

<400> 18680

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 acacctgaaa aaggaaggggt tagtgagtggt gtgtgtggaa attgtcatcg ctcgcaagag 120  
 caacaacaac tagtacttaa agagacagag agtgtgcaca tcaatgtctg ctcaggtcgg 180  
 tgtcaggaca cgagcccaag ccgcattagc catggaagct gttagttctg ctgaaccatc 240  
 atccaagaga aagaagatca gca 263

<210> 18681

<211> 230

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700958155H1

<400> 18681

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 ggcaaaaaat ttacatatta tgaagtgaga aaatcctaag agatgtttgt tacatccctt 120  
 gcttgctctt acttcaactta tcccaccctt ttgcattctt tttgttccac atttacttcg 180  
 tgccgtnagc agtgcacggt gctgcagctc aatagacaca gtcagaaata 230

<210> 18682  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958156H1

<400> 18682

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 cagggcatcc actgatcaaa ccaatgttga tgtctttatc cccttggtca tcaattttgt 120  
 ggtggctatg tacattacag tgatcagcat ctccataatc acgtgtcaaa attcttggcc 180  
 aacagctttc ttgttaattc ctcttgcttg gttaaaccatt tgggtaccggg gttattttct 240  
 tgcttcatct cgcgaggttaa ct 262

<210> 18683  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958157H1

<400> 18683

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 gattcatgat tgccataggat ttgtactctt tcaagttgag actcttgaca aatgaagagc 120  
 aacaacaatt actgaagtta cttcctgttg ttgatactgc taaactccct gatagccttg 180  
 tcgtcatggt cagtagctct cagttcaagg agaacttcac ttagttgcag cagctgctag 240  
 cgaggaggagt ctctgatatc t 261

<210> 18684  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958158H1

<400> 18684

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 ggctcagtta aactcttatt tttgtccttt ctctcggtga tcatctcttt ctccatagct 120



aacaactgtg aaatctgtgg aatcaaaggg gcaagctgag aagtgtgcca agagaaagag 60  
gaagaaccag tatcgcgga tccgccagcg tccatgggga aagtgggctg ctgagattcg 120  
cgaccaaga aaggggggttc gtgtttggct tggaaactctc agcactgctg aagaagctgc 180  
aagagcttac gatgctgaag caaggaggat ccgtggcaag aaagccaagg tgaatttccc 240  
tgatgagcct tcaggcgctg c 261

<210> 18688  
<211> 263  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700958164H1  
<400> 18688

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atcaaaatga gtggtagcaa cgatggtagc ggcagtggag ctctagggtt ttgaagggtg 120  
ctagtgcagc tgccgctaca accgccgttg ccggcggttt atatgccatt ctttcatacct 180  
caacctctgc tagctctgag atggaagtgc cgtttggcag cgcacggcgt gagagcaaag 240  
aacgtgacga tgggtggctcc ggg 263

<210> 18689  
<211> 260  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700958165H1  
<400> 18689

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tgatggagat ggcgaacgaa acgctgtcgt tgcggcactc gcggcggttg tgctactcgc 120  
ggcgagtgtg gcggtggatg ctcaggagaa ctcggacgtg aagacgctag tgaagtacaa 180  
gcacgggaag aagtactgcg acaaagggtg gaatgtaagg gctgggtcaat ttactgttgt 240  
aacctcacca ttaccgatta 260

<210> 18690  
<211> 77  
<212> DNA

<213> Glycine max  
 <223> Clone ID: 700958166H1  
 <400> 18690  
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 tggctttggc aatggtg 77

<210> 18691  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958167H1  
 <400> 18691  
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 atgatgccct catcacagtt tccagaaaga ttgaagattc tgaaaagaac gcatcaaagt 180  
 caaaatcaag ggtgcaacaa caagaccaat ccgcactaat agacatacca aatgattccc 240  
 caatcgtggg acttgcgaaat ggg 263

<210> 18692  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958169H1  
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 agcagatgta tgccatctca atctccacaa gacattttgc acccctcatg gaggaggtgg 120  
 ccctggcatg ggtcctatag gtgtacagaa acacttggca ccatttttac catcacaccc 180  
 tgtgatagca actggtggaa ttctgcccc tgacaaacct caaccacttg gtaccatcgc 240  
 tgccgcacca tggggctcag 260

<210> 18693  
 <211> 260  
 <212> DNA



tcatgacgat gatgctcc

258

<210> 18696  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958173H1

<400> 18696

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tgaattcatt aagtgtgcag tcattggact cttatgcgta caagatgaac caagtgatcg 120  
accactatg tcaaatgttt tgttcatgct cgacatagag gcagcaagca tgccaattcc 180  
cacgcagcca accttttttg tgaaaaagca tctttctagc tcagcttctt cttcgagcaa 240  
accagatata ggtcagtat 259

<210> 18697  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958175H1

<400> 18697

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ccttaaacc agcacatctt cagagtcatt cggattcca tgggacaacg tcgttgtgat 120  
ccagcaaggg aaggatcaca atgagccctg catcgtcacc gtcaattgcc ccgacaaggc 180  
tggtctcggc tgtgatcttt gcagaatcat cctcgagtgc ggtctccgca ttaccctgtc 240  
tgatatttcc acggatgga 259

<210> 18698  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958142H1

<400> 18698

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 cctcttcccg aagcttctcc ttcacatcct ctgactattg ggctctctca ggaagctgat 180  
 ttgcagcctc ctccgcttca tgggcctcca cgacttctc gagcccgaca ttgcctgggc 240  
 cgaaaccag acccgagtgc 260

<210> 18699  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958110H1  
 <400> 18699

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 ggcagcaatg ggatagtggc agctcctcca cagaacgcat cggcactgtc gccatgcaca 120  
 tgcagcttct ccagaacgac cgcgtcctac tcttcgatcg caccgacttc ggactctcca 180  
 acctgaagct cgccgacgga agatgctgca acaaccaaac gagttgggtcg tcgaacgcga 240  
 ctgcaccgcg cactcgatcg aatacgacg 269

<210> 18700  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958111H1  
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 cgcgctaggg ttgttgagat cggtcacccc gaagacggta gagtccaggg aagctgacgc 120  
 agcgatgatg gcggaggacg aagcactgga gaaagtggat atcgagtgga tgggtggccat 180  
 ggtggaagcg gtaactgcgg tagcatagga gagtgcacgc gcacgagtct cacgcgggtg 240  
 aagggaaca gagaaagatg gatg 264

<210> 18701  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958112H1

<400> 18701

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 aagttccact cccttcccct atgttttttc actctcttgg ccttcaacac aaaaccctc 120  
 ctagcagcag aaccagagcc agtggttgat aagcaaggga accctttgga gccaggagta 180  
 gggactacg tgtggccact ttgggctgat gaaggaggcc tcacactagg ccaaacaagg 240  
 aacaagacat gccctcttta tggtatc 267

<210> 18702

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700958113H1

<400> 18702

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Figure 1: A schematic diagram of a 1D lattice chain with  $N$  sites. The sites are labeled  $1, 2, \dots, N$ . The chain is divided into two halves by a vertical dashed line. The left half contains sites  $1, 2, \dots, N/2$ , and the right half contains sites  $N/2+1, N/2+2, \dots, N$ . The sites are connected by horizontal lines representing nearest-neighbor interactions. The diagram is labeled "Figure 1" at the bottom.

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Figure 1: A schematic diagram of a 1D lattice chain with  $N$  sites. The sites are labeled  $1, 2, \dots, N$ . The chain is divided into two halves by a vertical dashed line. The left half contains sites  $1, 2, \dots, N/2$ , and the right half contains sites  $N/2+1, N/2+2, \dots, N$ . The sites are connected by horizontal lines representing nearest-neighbor interactions. The diagram is labeled "Figure 1" at the bottom.

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cctgccgccc ccac 74

<210> 18766

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: 700958054H1

<400> 18766

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agaagagacg tagaaactgt attgactatg ggaatcatgg aagatggtag cattattccc 120

catccagctg gtacagagaa ggttgatttg gtgatgaatg tgggtggaaag tcccagtgga 180

aggttttatg ctggtgggtg ggatatcaag tgggattaca aatgggtccac taagagggct 240

<210> 18767

<211> 239

<212> DNA

<213> Glycine max

<223> Clone ID: 700958055H1

<400> 18767

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cggtggagca gggcggagtg ggtgcagcag tacgatctct taggaaaaat cggcgaaggc 120

acttacggcc tcgtcttctt cgcccgaacc aaatcccccg ttggcactcc ctccaaatcc 180

attgccataa aaaagttcaa gcaatccaag gacggcgacg gcgtctcccc caccgccat 239

<210> 18768



[illegible]

<400>	18768
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<210> 18769

<211> 114

<212> DNA

<213> Glycine max

<223> Clone ID: 700958059H1

<400>	18769
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<210> 18770

<211> 236

<212> DNA

<213> Glycine max

<223> Clone ID: 700958060H1

<400>	18770
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caccgtggat cgttgagcgt gaggtctgtt ccggtaacct ctcccggcgg cgctgagtgg 60

tgatcaagga tatgggtcag actctgagtt gcgtgcaaca gcacgaggac catggtgtgc 120

tcttcctgc acttgcaagt ggagaattgg aggttgttga cgccatagtg gatgaagacc 180

ccactgtgtt ggaacacacc attggctgtg acaggctttc tcctctgcat gtcgct 236

<210> 18771

<211>            225

<212> DNA

<213> Glycine max

<223> Clone ID: 700958062H1

<400> 18771



attcaagata ccaatgctat cttttcactt gttctcgatg aagatgacgt gaacagcata 180  
 agagaagcca cagcgaaagg aaaggatctg cttaaagtga ttggtgat 228

<210> 18775  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: 700958068H1  
 <400> 18775

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 catatagcta agccagcggg gngactgaag gcatattttg tatgcccga atatatgtaa 120  
 atattttatg tcgtttgctt ttgtaaagta tctttctggt gagtagcaga cacggaaatt 180  
 tgggggtttgc ccagggtgcat ttctattgtt ttgttgtaga tctaatagatg ccg 233

<210> 18776  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958069H1  
 <400> 18776

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 catcaccctt gacgtggaaa gctctgacac catcgacaac gtcaaggcca agatccagga 120  
 caaggaagga atccccccgg accagcaacg tctcattttc gccggatagc aacttgagga 180  
 cggccgtacc ctggctgact agaacattca gaatgagagt actcttcacc tcg 233

<210> 18777  
 <211> 223  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700958071H1  
 <400> 18777

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 caattgttat tatctcaatg tgtagcattt cctaggcaca gaattcgccc aaagatttcc 120



cggtctataga gtccggtcat cggagctgca acacgtggca gaaaacatgg agcggtttaga 120  
gaacgtgatg gacattgtga actcatcaac caacaacaat atatctcagc ttgcctccgt 180  
cacaatcttc tacagcccct ccgacatagg ttctctggatc gacacgctcc tctcggg 237

<400> 18783

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ccctctctttt ctttctctct ctttacattc tttctctctc tatcaacctc caaactccga 120  
tcccgatattt ctctctctgc taccgatcc agaggcttca atcctttccc cgtcgagatc 180  
ttgcttcacg cgctccaac gctggaccac gcgcctgttt ccgcctccat catggctgtg 240  
agcggaggga ag 252

<210> 18784

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700957991H1

<400> 18784

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tcaaattcaa catagtccac aagaagggtc cagtgtttat tcacaatgag aagcccatag 180  
cagagtctct tgtgattgtt gaatacattg atgagacatg gaagaacaac cccatcttgc 240  
cttctgatcc 250

<210> 18785

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957992H1

<400> 18785

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tatcagggtg gtgttggttg ctccgtaagc tgtagatgtg aaggatgcaa gaacacatat 180  
ggtagaaaagg atggttctgt tccttctgga ttagaagccg aacctgaaga agaaacagaa 240  
gcatgcgaa 249

<210> 18786  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957993H1  
  
 <400> 18786  
  
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 aagaagcaag cctccgacat ggacccgacg aagaagaaga agaagagtaa gaggaattcg 180  
 acgaagagcc gaaggagaag gagaaagagg aagtggaaat tgcagtatta gagagcgagg 240  
 atcgagctag g 251

<210> 18787  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957995H1  
  
 <400> 18787  
  
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 catcgagaag aagcaacaag acgtggtgaa agagaaagac ttgttcaaag ctgcagaaga 120  
 gggcgaggca tcaacgttcg aagctctctc ttctgaaatc ctctccaaag ccctctctct 180  
 cagaaacgaa gacgctcggt cccttctcca cgtcgcagct tcttccggtc actcccaggt 240  
 agtgaag 247

<210> 18788  
 <211> 173  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700958001H1  
  
 <400> 18788  
  
 aaataatctg tagcagcatc cagagcaata ggatttcgaa taataaaacc atttcttctc 60  
 ctatgctagc aataacatat attgcacca tcgcactttg atgagaatgg ccacgttctt 120  
 tgcagt'aatc agaggctcag agactaactc atccttctcc attaatttta tta 173

[illegible]

<400> 18789

<210>	18790
<211>	171
<212>	DNA
<213>	Glycine max

<400> 18790

<210>	18791
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<212>	DNA
<213>	Glycine max

<400> 18791

8084



<210> 18792  
 <211> 82  
 <212> DNA  
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<223> Clone ID: 700958007H1

<400> 18792

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acgatttgtc caccaacaga cg 82

<210> 18793  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958008H1

<400> 18793

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atgtacggta gggatccgtg gggaggcccg ctggagattc acgccaccga ctccgccacg 120

gacgacgagc gcaccggaat ctccaggagc tggaccgagg cgcttttagac gagaccaaac 180

agagctgggc tcttgggagc cggagaacag aaagagagca ataaaacc 228

<210> 18794  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958009H1

<400> 18794

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aacacagtgc cgtgttttcc tcattgccac tgggttctcaa atggcttagg gacacgggtgc 120

aacaaaacca gtcaactcgt tttcagggtc ttgttactgg ttctatacat cttattggtg 180

acatgttgaa attagtcaag aagtgattcg ttgggctact tgaaagattg gctttcattc 240

agatt 245

<210> 18795  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958010H1

<400> 18795

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 tgggtgctaca acaagtctca caagtaacaa cactgggttct gcatttggtg cttcattgtc 180  
 gcctccagat ccaactaact gcgttcaacc ggaccagaa gaagaccctt tttgcacacc 240  
 acc 243

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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958011H1

<400> 18796

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 tacttctttt tcacatggaa tgtcacctat ggcacccttt ctccagccgg tgtgccccag 180  
 caggttattc taatcaacaa tgaattccct ggaccaaca taaattcc 228

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 <211> 236  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958012H1

<400> 18797

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 ttgcttgagg gagcagatgc ttccccaga caagtgattg acacagaagg caagaaagt 120  
 cgagctggcg tagattacta tatccgaccg gtcccaacaa ccccatgtga tgggcgtggg 180  
 ccgtgtgtgg ttggaagtgg ctatgttctc atagcaagg catccaacaa cacttg 236

<210> 18798  
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 <213> Glycine max

<223> Clone ID: 700958017H1

<400> 18798

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 gagcttcttt ccactgtggt gtcgtcttca ccacaacaag atgctttaca ggatgatttg 180  
 accaccacac ttgtgcagca gtgtcgtcgg tcacagacta ctgtccagcg aat 233

<210> 18799  
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 <213> Glycine max

<223> Clone ID: 700958018H1

<400> 18799

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 tagaccttaa cgttgtgtct atgattgtga attatggacg cgaaggatat cctgggattg 120  
 cccaaaaact cattccaac tctcgagaag aagtctcgtc ctcccaaaga gtctcaaaga 180  
 aaacc 185

<210> 18800  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700958019H1

<400> 18800

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 ttacaagggg tgcagttgtc ttccagcgat cagagaaaaa ttgaggaagt ttcagtgtga 120  
 aattccagtt ttcaaattcc aaccttgagg acaagggtga tttttaggaa ggggtgttgat 180  
 aagcataagc ataagccaca catcaccaag g 211

<210> 18801  
<211> 239  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958020H1

<400> 18801

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tgacatgtgg tactgcccta gatgcaagga acacagacaa gctacaaaga agcttgactt 120  
gtggaaattg ccggagattc ttgtttttca cttaaaacga ttctcatata gcagatacct 180  
gaaaaacaaa cttgacactt ttgtaaattt tcccattcac aatctggatt taaccaaatt 239

<210> 18802  
<211> 237  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958021H1

<400> 18802

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tagcaaaaag agccaataga aaactgttcc atatagtctc ccattcaaac ttgttttgat 120  
tttcatttta actcaatgga gaatagaaca agctctgtac tcccacctgg cttcaggttt 180  
caccctactg atgaggaact aattgtgtac tacctttgca accaagcctc atcaagg 237

<210> 18803  
<211> 176  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700958022H1

<400> 18803

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acaaagggtg gttacggctg gctgaaaaag atgactcctg taaacagtgc atttgcttgg 120  
cagtcataca atgaagaacc tgccatcatc agtcaagctg attccattgc agcata 176

<400> 18804

<210>	18805
<211>	255
<212>	DNA
<213>	Glycine max

<400> 18805

<210>	18806
<211>	237
<212>	DNA
<213>	Glycine max

<400> 18806

8089

**09333**

52

60

120

122

<400> 18808

60

120

180

240

<400> 18809

60

120

180

240

253

<210> 18810  
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 <213> Glycine max  
  
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 tcatgaacaa cccagcaatt gatacaaatg ttacatgca ccatcaaaag cagatgcctg 180  
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 attgcaagtt 250

<210> 18811  
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 <213> Glycine max  
  
 <223> Clone ID: 700957952H1  
  
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 tgccctttga aatatgatga agccatgttg gaggaggaag aagatgaaaa ggactttgtt 180  
 cttttgactt caattattag tgaagtttat atatatatgg taatgttaga atttggaag 240  
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<210> 18812  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957954H1  
  
 <400> 18812  
  
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taatgcaatt gagtttgaat aaagaccaa atttcaagaa tactatttac t 171

<210> 18813  
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<223> Clone ID: 700957956H1

<400> 18813

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aggagaagaa tcgcaaattt gtggagacca tcgaactcca aatcggggtg aaaaactacg 180  
atccacagaa ggacaagcgt ttcagtggct ctgtcaagct gccccacatc cctcgcccca 240  
agatgaaat 249

<210> 18814  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957957H1

<400> 18814

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ggcgagacgc agtttcccgC ctatcaccga atgcaacgga acgacaccgt gcgagtctgt 120  
ggccgcccac ctcgacggta cgctcctcat ctcacgtagc tcgttcccgT acttcatgct 180  
cgtcgccgtc gaagccggca gcctcctccg cggcctcatc ctccctcctaa tacatccgtt 240  
cgtcatcatc gcctacc 257

<210> 18815  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957958H1

<400> 18815

cacaagtcac cagaggagag aaagctggag cttaggcttg gtccacctgg tgaagagtag 60



atcaatgaaa gcatcagaaa aagcaacaga gaaagaaatg aatcacaatt cactcttggt 120  
 tgcttctcaa ctcaaaatct ttttacttct gacaagcaag gtccagggtg gactacgttg 180  
 ccctctgcat ggccttccac atcctatcat catgaacacc aggctaaagc taaagcttca 240  
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<210> 18816  
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 <223> Clone ID: 700957959H1  
 <400> 18816

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 gttctgtttc tgtcatgaat tccaatcaga gtgatctcga tttaaaacta ggtacagtgc 120  
 cacacaacat 130

<210> 18817  
 <211> 167  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957960H1  
 <400> 18817

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 tttctcctta tccatccata tcccttacca ataatacct attgttttgc tttgttcgga 120  
 aacgaaaccc taattttggg atcacaggtg aggttattgt gatttga 167

<210> 18818  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957961H1  
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 tctatgggtc tctaccttgc tgcaaaaccc tgcagcccat gctgcagcga gttttgctgc 120

tacatttttg ccatatgcaa atgcagaaac ttctgcagat tctcccggtg gcaactccaga 180  
 ttttccatca agacaaattg gctcgcctcc aagtgtgaca gctattgcag ctgctacagt 240  
 agctgctgca act 253

<210> 18819  
 <211> 249  
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 <213> Glycine max  
 <223> Clone ID: 700957963H1  
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 aagagtggaa tgctgcgcaa cacagcttaa tggaactggt cattgtgatt atcctaaatg 120  
 gatcgagatc ctatgtcacg atattaatgt ccatattcca caccacatat cccagagga 180  
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 tgaatgagg 249

<210> 18820  
 <211> 250  
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 <213> Glycine max  
 <223> Clone ID: 700957964H1  
 <400> 18820

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 gtgaattaca ggtgccattg agtattttgt aatctttctt tgattataat tattaataa 120  
 aagctggagg aggaagagaa aagtccgtaa tactttcgtc actgttatat tgatgtgggc 180  
 ctgttgtaga taaaggatga gcaaattttg gcctttttac atggatagga tatctgaggc 240  
 atttcctgaa 250

<210> 18821  
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 <212> DNA  
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 <223> Clone ID: 700957967H1

[illegible]

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<210>      18822
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<212>      DNA
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<223>      Clone ID: 700957969H1
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<210>	18823
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<223>	Clone ID: 700957970H1

8095

<210> 18824  
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 <223> Clone ID: 700957972H1  
  
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 aatgtaaagt ccaagattca agacaaggaa gggatccac cagaccagca acgtctcatt 180  
 tttgctggca agcagcttga ggatggacgt acacttgctg attacaacat tcaaaaggag 240  
 tccactctac acttggtg 258

<210> 18825  
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 <212> DNA  
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 <223> Clone ID: 700957973H1  
  
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 aacccacac tgttcctttt ttatgcggtt tgatgcattg ctaggaaaca aaacaacacc 120  
 ttcattctat gccctcataa attaacattc agaattccca cttgtctctc ttattctctg 180  
 ccaaaacttg ttacaagtct ttaatttcca ggtcttctct ttctctcata ctacttcaaa 240  
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<210> 18826  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957975H1  
  
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 attccgagtt caattccaaa atcaagacct tctattagct tgggtttggg aactcccaag 120  
 ttgttcaatt cagtttcagt aagggtagcc gtgaacgtga atggtcgggg aagaaacaaa 180

ggtttgagtt gcaacgccat gttcgggtctg ggcgtgcctg aactggtcgt tattgccggc 240  
gtggccgccc tc 252

<210> 18827  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957976H1

<400> 18827

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ccacctcagc ctcacactca catatacaca tatctgaacg cgtatcgtcc ctcctatggc 180  
ttcaaagcgc atcctcaagg agctcaagga cttgcagaaa gaccaccaa cttcttgagc 240  
cgctggtcca g 251

<210> 18828  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957977H1

<400> 18828

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taacttgaac tctccattcc tttaaatttta gctacgagct agttccgaca cagacaaagc 120  
aagaggcaaa gaccgagtta gaggtgactg ttgagagcaa gaacaaagac ctcaagcacc 180  
tggggtttgt gaggattgct gctattcaaa catttgtgat tgtgtcaaatt ctgtatgagt 240  
acgcaaagca 250

<210> 18829  
<211> 251  
<212> DNA  
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<223> Clone ID: 700957978H1

<400> 18829



73

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<223> Clone ID: 700957911H1

<400> 18838

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 gtatgcggtt ggaggagagc tctttgagag gatatgcaat gctggcaggt tcagtgaaga 120  
 tgaggctaga tatttctttc agcagctgat ttctgggtga cattactgtc atgccatgca 180  
 aatatgtcac agagatttga agctagaaaa taccctttta gatggaagcc ctgcaccccg 240  
 cctgaaaatt tgtgactttg 260

<210> 18839

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700957912H1

<400> 18839

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 accatcggtt accgtgattt gagttataac atcaattttt ttcaactgtc ctcaaccaca 120  
 attgaaatca catcggtgtt catttggtcg taatttatca cgatatcaat aaacccaacc 180  
 aaaccgttat gcaactgtaa ccgatcaaca agttaagaga gggggaaatg aggggtattta 240  
 aaagagccag tggagcca 258

<210> 18840

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700957913H1

<400> 18840

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 aggacttgcc tagcttcatg agaaccacaa acccacaaga tctcatgatc atggatttca 120  
 tatatagcca gtgtgagaga gctcaaaaag cttcagcaat cattgtgaac acgtttgatg 180  
 cattagagca tgacgttttg gatgcattct catccatatt gttgectcct atctattcca 240  
 ttggcccctt aaa 253

<210> 18841  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957914H1

<400> 18841

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 ttgagctctt ctttgaaatt gcagagaaca aggaggatta caacaagttc tatgaggctt 180  
 tctccaagaa cttgaagcca ggtatccatg aggattcaca gaacaaggga aagattgctg 240  
 aattgctcag gtaccact 258

<210> 18842  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957918H1

<400> 18842

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 gaggtgcaag gagaggggcta tgcgaggcag aagcttctgt gagaggcatt ttctgtacca 120  
 gcagcagaga aataggagtg cgaagaagaa acgtgcttct ggggggtgttg gtgtgcccc 180  
 gaaaagagga atgaaacaaa gaaaaaacc tgaaggtgat ttggaaaatg gggttgtggg 240  
 tgctggagtt gttggcgccg atgggtg 266

<210> 18843  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957919H1

<400> 18843

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aaacttggat acaattaatt caataagtag ggccaggta tttaattata tttgtgcata 180  
 tacgatacgt gtgcgtatac gtatacgcgc gtgcagaaca tctttatagc aggaacagac 240  
 ccgagttccg cgacaatagt ttggg 265

<210> 18844  
 <211> 87  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957920H1  
 <400> 18844

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 tactcgtttt gattccacac aacatac 87

<210> 18845  
 <211> 220  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957921H1  
 <400> 18845

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 tcttacttca tagaaaatat agctatagag gaagttggcc aacggttaac ttccctccga 120  
 acctagagag agtagtagtc tcttgtaatc aaagcaaagt tcagtagtcg attcttggtc 180  
 accttctgag actctaactt caccttcctg acataccctt 220

<210> 18846  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957922H1  
 <400> 18846

caaatttaaa gaaatcaaca cacacaaaca catcaacata tggatatagt aagggtgcaa 60  
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 gagcaaccag gcatcacaac cgttcaaggg gtgaaccttg aggtgccaat tattgatttt 180

agtgacccag atgaaggga agtggtgcat gagattttgg aggcaagtag ggactggggc 240  
atgttccaaa ttgtgaacca tga 263

<210> 18847  
<211> 263  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957923H1  
  
<400> 18847

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ggtcaccctc tgagacacaa cctctgcttc ctgacatata cttcacgcca atcttccctt 120  
cctcctcaga ctatatacac ttcattcatct ctatcccttc ttcataatttt ttctattctt 180  
aacctttctc tacagtatgt gtttgctgaa aggatcatgt tattgaagct ttttgtgata 240  
tttgtctgat tatgttgcta gga 263

<210> 18848  
<211> 264  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957924H1  
  
<400> 18848

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cagtttcaaaa ccctaattcc ctcattecca tggcctcaga agagcccact gtcgcggtgg 120  
aaccgctcc cgaacctgcc accgcccagc ctcccccgga ggagaaggag gagcccaaac 180  
ctgaagccaa ggctaagaaa accaaggaac ccaaacctaa aaaggtttcc agaccacgca 240  
accctccac tcattccttcc tacg 264

<210> 18849  
<211> 224  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957925H1  
  
<400> 18849

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 ctctagactg caacctttac tctggatggt gcacctcaaa gaaccggttc tactcttcag 180  
 cacatcctaa taatccgatt aagaaaccat cattttccac acaa 224

<210> 18850  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957926H1  
 <400> 18850

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 gttgaagtca ttgacaagggt tgcgtacaag gaggatgttt tcaactacat caaggaatac 120  
 gagatggtcc ctttgtacga gaccctagtc gccgattccg tgttggactt ggatcgtgcc 180  
 cttttggact tcatgcgcgc taaaattgaa gacgagctca ccaagctcga cgaaaagatt 240  
 gctgatgctg aggaaa 256

<210> 18851  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957927H1  
 <400> 18851

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 catcaaaata ttaggtctac acttgtagaa aggctgccag ttttggatga ggcaacttac 120  
 attggtagga gggctggggt gctgccaggc gcagcttcaa ctccaactgc accttcattt 180  
 aatcttccaa atggagtagc caaacctgtg gtcctctttg tagatctact tgatctaagt 240  
 tcagatgatg ctctgtgt 258

<210> 18852  
 <211> 94  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957930H1

<400> 18852

gtcttcaatc gaaaagctcc tagaaagtgg tcgtcccttc cttcgcggtg atctggagtc 60  
catgcgacaa gaacttacct cggctgggtg gcgt 94

<210> 18853  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957931H1

<400> 18853

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gcctttagat tctgattctg agtctctgct gctatatatg gcgccacgcg tatttcttgt 120  
gttggggatg ttgctgatgg tgtgccttgt taaggtttcg tctgatccaa agagagaaga 180  
agaaatactg gaagaagaac tacattttcc cgataacgag ccacttattg tgagagacgg 240  
gaacagaagg ct 252

<210> 18854  
<211> 217  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957932H1

<400> 18854

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cctggttctt tcaatcgggtg tggtagtagt tttacttgtc acttggctgc ccaacaagga 120  
ggctctagac tgcaaccttt actctggatg gtgcacctca aagaaccggt tctactcttc 180  
agcacatcct aataatccga ttaagaaacc atcattt 217

<210> 18855  
<211> 175  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957933H1

<400> 18855

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tctctcaacc tgaaagtcac taacaagagt catgttcaac ctgaggagaa aattggaagg 120  
aaagagtacc agctgggtcac ttttgatctt ccctacttgg ctttctacta caacc 175

<210> 18856

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700957934H1

<400> 18856

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cgatgccgtt tgctctggag aataacggag gagttacgat cggacgggtcc tccttcgctt 120  
actgcgtcgc gatctgcgat cgtgattttc cggaggatga ttccgactcc agtccgact 180  
cctccatcgg aaggaacagc atctcgtcgg aagattcctc cgaccgggaa gacgccgtcg 240  
aagttgaggt tcagagttcc ttc 263

<210> 18857

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700957936H1

<400> 18857

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caagtctgta gttgagaagc tactttggat ggcaattgtg tgcttggtgc tgggtgtaat 120  
ttccattatc cccaaggccc aagcagcagt gacatgcaac caggtggtga gcaacctcac 180  
cccatgcatt tcttatgtgc tcaatggtgg caaaaccgtg cctggccctt gctgcaatgg 240  
gatcaagacc ctctttaacc t 261

<210> 18858

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700957937H1

<400> 18858

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 aggggttggg aaagggaggt gccaagaggc acaggaaggt tcttcgtgac aacatccagg 120  
 gcatcacgaa acctgcgatt cgtaggtag cgagaagagg tggcgtgaag aggatcagt 180  
 gtttgatcta cgaggaaacc agaggagttc tgaagatatt cttggagaac gtgattcgcg 240  
 atgctgtgac ctacactgag ca 262

<210> 18859

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700957938H1

<400> 18859

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 aaattttcaa cgggcgcaa ggagcactag tgtgcttctg gttgttgtct gtgttttctg 120  
 tggtaacagg attcaacat gaagagcaca ggacagtgga ggtagtggc ctaggagaat 180  
 gcgcagactg caggcagaac aatattaaga ataaccacgc tttctcaggg ttacgtgtga 240  
 cggtagattg ctagtcacga c 261

<210> 18860

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700957939H1

<400> 18860

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 tgggtggttcc atatcagggc aatttgattg tgaaagagat ccaaagcagt ttggctcttc 120  
 agttgtcaat atgagaaaag atgtcagaag tgagattgat gtgcttcac acgtcagaaa 180  
 aaagaaaaag caggcatcaa tgtctgtcag aagcatatcg actagagaaa atatccacac 240  
 cttactaagg cgagccaagg t 261



[illegible]

<400> 18861

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<212>	DNA
<213>	Glycine max

<400>	18862
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<210>	18863
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<212>	DNA
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<400>	18863
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8109

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 aaatctac 248

<210> 18864  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957868H1  
 <400> 18864

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 ttctggtttt cgtgaatggc ttgctctcca tccaatcatt gcagaatcag agaatgcttc 120  
 aaaaatgata atttttgctc atcaccacaa agttcttgac ggagtacagg tgtttttatg 180  
 tgagaaaggg ataagttttg tgcg 204

<210> 18865  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957869H1  
 <400> 18865

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 gagctaagat agtttagttg tcaagtcata aatcagatc atcactttaa atttcattag 120  
 aagctgtcaa aatgtcacgg aagggtttga tggagcaaga cctgagtaag ttggatgtaa 180  
 caaagttgca tccactttct ccagaagtca tatctcggca ggctactatt aatatgggca 240  
 ctatagg 247

<210> 18866  
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 <213> Glycine max  
 <223> Clone ID: 700957870H1  
 <400> 18866

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gtctttcttct catccaaggg ttgagattgt tggtggaagt gaagctcctc cagtgcattgc 120  
 tctagttggt gaggttgcca tagccatggc ctcaggtgtt catcctatac cctcccaag 180  
 tggcctaggt ggtgcctatg ttttc 205

<210> 18867  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957871H1

<400> 18867

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 aattgcttaa accataaaca tttaacagcc tcatttttga taaattatta gggtttttagc 120  
 atgtctctct aaatatttga ttgtttcttg gcgtactgtt ggttttttag ttcatttttg 180  
 gatggtttat tgggtacttt gatagtggtc actaaaattt ggagcattaa tggttttcct 240  
 ctcacct 247

<210> 18868  
 <211> 204  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957872H1

<400> 18868

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 cttttctaca tttggaaata tcctttcgtg caaggtagct acggattcat ctgggcaatc 120  
 aaaaggctat ggctttgttc aatttgataa tgaggaatct gcccaaaaag ctatagagaa 180  
 gctgaatggt atgctgttga atga 204

<210> 18869  
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 <212> DNA  
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<223> Clone ID: 700957873H1

<400> 18869



<400> 18872  
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 gcttcatcgc tgagaagaga tgcgtctctc taatgctccg tttggcatgg cactctgctg 180  
 gaacctttga caagggcacg aagaccggtg gaccttcgg aaccatcaag caccctaacg 240  
 aactggc 247

<210> 18873  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700957878H1

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<210> 18874  
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<223> Clone ID: 700957879H1

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 catgaggaag accgtcacca agcaggcctc ctccggaagc ccatggtacg gccagaccg 180  
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 aggtgactac gg 252

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 <212> DNA  
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<223> Clone ID: 700957880H1

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agcaataatg ggcgctggaa atatacgacc ttcttcttcc ggctgctctc acttgtctat 180  
ctccgagctc cgcgagaagc accattggga gctagaaaat ctgacactaa cctcacaacc 240  
tttcaaaaca ttgaa 255

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<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957881H1

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cagttagagg ccttccctcc ctctcaagga actcctcttc attcagagtt gtggccagtg 180  
gtggcaagaa gatcaagact gacaagcctt atggaattaa tgggtggcatg gctttgaggc 240  
aaggagttg 249

<210> 18877  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957883H1

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aagttcggcg tc 72

<210> 18878  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957884H1

<400> 18878

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 gggttttctc cggttcactt gggttcgaac gcgtaacaagc aggccagcat gttgctatcg 180  
 cttttcgggg gtggggatgg gtatagagtg gaagagaaca atgggtgtct catgttggga 240  
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<210> 18879

<211> 245

<212> DNA

<213> Glycine max

<223> Clone ID: 700957885H1

<400> 18879

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 tataggcaaa ttaagaacaa gccatacccc aagtcacgtt tctgccgtgg tgttctgat 120  
 cccaagatca ggatttatga tgttggtatg aagaagaagg gtgttgatga gtttcctttc 180  
 tgtgtccatc tggttagtgt ggagaaggaa aatgtttcaa gtgaggccct ggaagctgct 240  
 cgcat 245

<210> 18880

<211> 205

<212> DNA

<213> Glycine max

<223> Clone ID: 700957888H1

<400> 18880

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 gagtgtagac caacctcctt ttctttgctt tgagctcgct cgatcttctt ccatttcgat 120  
 tcttgtttta tttattttta tttatttaag ctttttaaag gcccaacatt tcgttcttga 180  
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<210> 18881

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<212> DNA  
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<223> Clone ID: 700957889H1

<400> 18881

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cctgtactgg cgccacttcc tattggattt gccgtgttca tggttcactt ggctacaatc 180  
ccaattactg gtactggcat taaccagca aggagtttcg gagcagctgt aatctacaac 240  
gaaga 245

<210> 18882  
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<223> Clone ID: 700957891H1

<400> 18882

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gtgtcagatc atgttcctga attacttata ggtgatccag gaagatttcg acaaataatt 180  
accaatctca tgggtaactc aattaagttc acggacaaag gacatatttt tgtcacaatc 240  
catct 245

<210> 18883  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957892H1

<400> 18883

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accttcatca tgatcaagcc agatggcggt caaagaggcc ttattggcga gattattagc 120  
agatttgaga ggaagggttt ttacttgaaa gggttgaaac tcgttactgt ggaccgtcct 180  
tttgctgaga agcactatgc tgatttgtct gcaaagcctt tcttttagtgg ttgggtggat 240



tacatt.

246

<210> 18884  
<211> 60  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957893H1  
  
<400> 18884

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<210> 18885  
<211> 78  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: 700957894H1  
  
<400> 18885

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nctctctctt ctctgaag 78

<210> 18886  
<211> 252  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957895H1  
  
<400> 18886

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cggtgcccc aactcaacat gctgttggtta gtctttcttc cttcttcatt tgctacgaat 120

agacttttca tgtcttcac tttcatctag tttcttggtc tttcttggtta cggttggttta 180

ggtctcaaca cctcaaagca aagtaggtag aagaaactgg accttggttt aattaaactt 240

ggcttctgca ag 252

<210> 18887  
<211> 269  
<212> DNA

<213> Glycine max

<223> Clone ID: 700957902H1

<400> 18887

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atcgatcgat cgatcgatgg ctctggtcgg agttgaagtg aagcatgcgg cggagggcgc 120  
accggaggag aattgctccg ccaagcccac caagcagggc gagggcctcc gccactacta 180  
ttctcacaac atccacgagc atcagctcct tctccgtcaa aagacgcata acctcaaccg 240  
tcttgaggct cagagaaacg agtcaatt 269

<210> 18888

<211> 202

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700957903H1

<400> 18888

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cgccattctc gtgttcgatc ctcactcttc tancgctctt caactcctac gttaacccca 120  
tcttcgcttc actcaccttc caactctctt cttcgctgct cccattcaat gccaaacttct 180  
ccagcgtcag actccactct tc 202

<210> 18889

<211> 264

<212> DNA

<213> Glycine max

<223> Clone ID: 700957906H1

<400> 18889

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atgtacctgg attatatattt ggatctaatt taggatttca aagaagccat agcaatctac 120  
cctgacttga gtaacgtaag attgaaagat ttggaattac tacttcaaga tgtttagct 180  
gctaaataga agatttgctt gtgccttgga aatgttgcta ttttagctgc cctgcagtgg 240  
tttctatcgg gaaaatggat tgac 264

<210> 18890  
<211> 264  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957907H1

<400> 18890

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ataagtagac aatttaattg gattgggtcga atgggtatcaa aaaaatggag tactaactcc 120  
catttcttat ttattattga attaaccgat caacttgctt tggtatcgaa catttctttt 180  
tgatttcaaa aattttccgg aaaaaatttg aatctatttt tatatgcgaa tcaatcctac 240  
tacttctggt cctgaggttt ctgc 264

<210> 18891  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957866H1

<400> 18891

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ctctaataca aatttctggc accaaatcct tcccactctc ctcaattcca ttcatttcaa 120  
ctcaacaatt tctcagatcc gtcaaacaaa ataaaaaaga tcgaaaaccc tagttctata 180  
aatatataaa ggaaaaaagg tctgatagat acccattgtc aatatgatct aattcttcac 240  
aca 243

<210> 18892  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957830H1

<400> 18892

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ctcaagcacg ttgaagttgc cgttcccgat ccaaaggcaa atgaggtttt aatcaaactg 120

gaagcagtta gcattaaccc tattgattgg aagattcaga aggggtcttct cgcgccttta 180  
 tttctcccca gaacctttcc ccacatacct tgcacagatg tggctggaga aatagttgag 240  
 atcggaactc aagtc 255

<210> 18893  
 <211> 136  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957831H1  
 <400> 18893

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 ggctgaacac ctgcaagtgt taatgtagat agacaattca aatgtacagc tttcagtagg 120  
 aaacaaatag cttgtc 136

<210> 18894  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957832H1  
 <400> 18894

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 tcgaaaggcc aaatttttct ttttcttttc ttttttcatt attatttcat atttttttcc 120  
 ccttttcaat ttttcaaaaa attctcgca ctaaattcac gtcagtacac ggaaacataa 180  
 aattcagttt ttttttatta aaatttggtg gcaaacaaaa acaaaaaaaaa aattgaaatt 240  
 ttgatccggt ttgccgaatt gg 262

<210> 18895  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957833H1  
 <400> 18895

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cttgaacagg caccacacta aaataaagat tgttaagttt gatattagaa caggtcaaag 120  
 gaaaaatata ttggtggaag aaaacagcag ttggatcaat atacatgact gtttcacacc 180  
 tcttgataaa ggagttacca aattttcggg tggatttatc tgggctagtg agaaaacagg 240  
 atttagacac ctttat 256

<210> 18896  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957834H1

<400> 18896

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 ggctcagcca ctgcaacagg aagcatagtt cgccgtact ccgcgaccct accctatcaa 120  
 ttttcgtact tcttttcgta attgcagcga agaattggcg agaggaagga gcggattcag 180  
 aaccgggagc cattcgatcc gtacggcgcc gatcccgga agacgaagaa gcgttcgaag 240  
 ccgccgaagc ggtacc 256

<210> 18897  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957836H1

<400> 18897

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 gtacttgaaa tgctgaagga caaatcaag gaggaggcat tgaggacata cctctttacc 120  
 ttctcttcat cttatgaatc gttgagcctg gatcaactca caaatTTTTT tgatctctct 180  
 gtttgctgca ctcatagcat tgcagtagg atgatgatca atgaggagct tcatgcaagc 240  
 tgggatcagc c 251

<210> 18898  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957838H1

<400> 18898

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ctccctcgcg tagatcggca atggcgcaga ccgagacgtt tgctttccag gctgagatca 120  
accagtcct cagtctcatc atcaacacct tctactccaa caaggaaacc ttccttcgtg 180  
aactcatcag caacgcctct gatgctttgg acaagattag atttgagagt ttgacggaca 240  
agagcaagct cg 252

<210> 18899

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700957840H1

<400> 18899

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tagcatggca atgccatgcg tacgatatgt tccctctccg aatgaacact ggctatgggtg 120  
cccgtactcc ggaggtgaaa tgcgcaagtt ggaggcttgc tgtggaagca cacaacatct 180  
ttggctttga gaccattcct gaagagtgcg ttgaagcaac aaaggaatac atccatggcg 240  
aacaatatag at 252

<210> 18900

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700957841H1

<400> 18900

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gtacttgaaa tgctgaagga caaaatcaag gaggaggcat tgaggacata cctctttacc 120  
ttctcttcat cttatgaatc gttgagcctg gatcaactca caaaattttt tgatctctct 180  
gtttgtcgca ctcatagcat tgtcagtagg atgatgatca atgaggagct tcatgcaagc 240  
tgggatcagc ca 252

<210> 18901  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957842H1

<400> 18901

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 cacatcgcaa gaaaattcac aagcgatgga tccgaagctg aaagagggtt ctcagctctt 120  
 cgatcgcttc aagacttcgt ttctccgga cgacttcgat aactgttcca atctcctttc 180  
 tcagctaaag gtgttactta caggtttcag aagcctgcc cgttggttg cagatacacc 240  
 taatgcagtt cat 253

<210> 18902  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700957844H1

<400> 18902

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 gcatatagaa gnccatcact gaactaaca agcaacccta tgtcgaagggt ggtttgtgtc 120  
 accggagcca gcggcgccat cggatcatgg gtggctctac tcctcctcca gcgtgggttac 180  
 accgtccatg ccaccgtcca agatatcaag gatgaaaatg agacgaaaca tttggaggaa 240  
 atggaaggag c 251

<210> 18903  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957845H1

<400> 18903

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gtacaagaat gtgattggtg ctgcgagagg tcctggagga tcctgtcttc cattgagcag 120  
aaggaagaaa caaaagggaa cgagttgaat gcgaacggat taaggagtac agacagaagg 180  
ttgaattgga gctatcgaac atctgtaatg atgttatgag agtgattgat gag 233

<210> 18904  
<211> 115  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957846H1  
<400> 18904

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agacgtttgc ttttcaggcc gagatcaacc agctcctcag tctaatac acac 115

<210> 18905  
<211> 257  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957847H1  
<400> 18905

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agatttgga acaccttcag cgctactcgc acctcactga cttcaacaat tacctcgcct 120  
tcatcttctc ccgtgccgag ggaaaatcag tggagggttcg gcaggctgcg gggttatata 180  
tgaagaataa cctcagaaac atgttcaa atgtgcagcc tgcataccaa cagtatgtga 240  
aatcagagtt gctgcct 257

<210> 18906  
<211> 258  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957848H1  
<400> 18906

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tgctaaaaag cctgccaaaga aaaaagagag tggcaagtct tctgtccttc tcgatgttaa 120





<400> 18909  
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 ccgacgtgga gcttctgaag agagcgtggc gcaacgagaa ggcggcccca gagattctcc 120  
 gctacgaatc taaattgggt tcccgcgtca acaaagtcac tcaactcatg gaagaaattg 180  
 tggaggaaaa atccagtggc ggtactgac ctctttcggg gtctctatat cagatggact 240  
 tggatagaa 249

<210> 18910  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957857H1

<400> 18910  
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 tctgggtttag ctgaatcaaa gaaagaacat ggagttgaac tgcttaacaa gctggaagct 120  
 ggtatagatg agcttgaact gatagtacag gataggaatc gagatgcagt tgcacaaaaa 180  
 cagaaagagc ttcttcaata tggttgaggc tgagatgttc ctggggcatt gcatttctgc 240  
 agtggttgaag 250

<210> 18911  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957859H1

<400> 18911  
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 tggaacatgg gaagcctcat gagcgttctt ctataataaa ggaattagca gacaagatag 180  
 ttcaaagtag tcaacagaag tttgcctcca atgttggtga gaaatgtttg acctttggag 240  
 gtccttctga 250

<210> 18912

<211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957860H1  
  
 <400> 18912  
  
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 tgctgtgaac ttatgggatg ctgatttcta tgtcaaagtt gatgatgatg ttcattgtaa 120  
 tatagcaaca ctgggacaaa ctctagtttag acatcgatca aaaccacgga tatacattgg 180  
 atgcatgaaa tctgggcctg tcctatccca aaaaggggta aggtaccatg aacctgagta 240  
 ctggaag 247

<210> 18913  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957861H1  
  
 <400> 18913  
  
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 gcttcacgc tgagaagaga tgcgctcctc taatgctccg tttggcatgg cactctgctg 180  
 gaacctttga caagggcacg aagaccggtg gacccttcgg aaccatcaag caccctaacg 240  
 aactggctca 250

<210> 18914  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957863H1  
  
 <400> 18914  
  
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 atccttggct ggcaaggccg tgaagctggg cccatcagcc cccgaagtcg ggagggctcag 120  
 catgaggaag accgtcacca agcaggcctc ctccggaagc ccatggtacg gccagaccg 180

cgtcaagtac ttggggcccat tctctggcga gccccgtcc tacctcactg gdgagttccc 240  
 aggtgactac ggc 253

<210> 18915  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957829H1

<400> 18915

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 acgtttgaga gatttgtgcg ctttgtcagc acaccggcta ttctggagat gtttgttagc 180  
 cttgaaaatg aaattctgca gatcagaagt tcatttcaag ctaatgtctt ttgcaatgtc 240  
 cgttg 245

<210> 18916  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957864H1

<400> 18916

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 ttattctcct ttgaaacact tgccccgtag ctgcaaaagc taaaacactt agtgaatgag 120  
 agcaataatg ggatctggaa atatacgacc ttcttcttcc ggctgctctc acttgtctat 180  
 ctccgagctc cgcgagaagc accattggga gctagaaaat ctgacactaa cctcacaacc 240  
 tttcaaaaca ttgaaatt 258

<210> 18917  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957865H1

<400> 18917

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 gtttgtttga gcagtgatgt ggagacaaat gagggttttg agaataatgg tggttgttgg 120  
 caggataaag tagctaacaat caccgcatgc aaggatacgt tccgtgggag agtatgtgaa 180  
 tgccccctgg tggatgggtgt gcaatttaaa ggagatgggt atacaatctg tgcagctagt 240  
 ggacctgggc 250

<210> 18918  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957783H1  
 <400> 18918

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 ttcgggtctct gaagttactc aaacagatga ggtgcttgag ttgtcgaagc aaatcaaaga 180  
 gaaattgaaa gaagctgacg aatatgatct tgaaggcaag tcagatctca agattcgagc 240  
 tttagagggt gtagagga 258

<210> 18919  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957784H1  
 <400> 18919

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 attcagttca gtccaaatcc caaatccgaa gtgagatttg cgatggagag gcttcagcga 120  
 atgttcgcag gtgcaggtgg agctctaggg caccctcccc cagattcccc aactctcgat 180  
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 gctgggggttc ccatggaagt 260

<210> 18920  
 <211> 214  
 <212> DNA

<213> Glycine max

<223> Clone ID: 700957787H1

<400> 18920

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agcgggttcaa tggacagttt cttcgacgag cttctcaagg acacgcacgc ctgcacccac 180  
accacacct gtaaccttcc cggccccgat ttct 214

<210> 18921

<211> 259

<212> DNA

<213> Glycine max

<223> Clone ID: 700957788H1

<400> 18921

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ggttattctt cgaaccgttg tctgaagttt acaactcaaa acttcaccga acgcatttca 120  
ttcaccaatt cgtccaagtc tcgtatcaat caatcagcct atccgtcttg cggttggaga 180  
gatcggaggg gagagcagcc atggcgcacg gagtagacca cgaotatgac tatctgttca 240  
agatcgtatt gatcggaga 259

<210> 18922

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700957791H1

<400> 18922

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gtcactgagt cgttgtcttg cggaggataa tggacttggt atgaacttct acaaggaatc 120  
atgcctcag gctgaagaca tcatcaaaga acaagtcaag cttctctaca agcgccacaa 180  
gaacactgct ttctctggc tcagaaacat cttccatgac tgtgctgttc agagttgtga 240  
tgcttcactg ttg 253

<210> 18923  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957792H1

<400> 18923

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 tgcacgtaca ccaatgggtg gatttcttgg tactctgtca tctctatctg ccaccaagct 180  
 aggctctata gctattgaag ctgctcttaa aagggccaat gttgatccat cccttgtgga 240  
 agaagtattt ttt 253

<210> 18924  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957795H1

<400> 18924

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 cttaaaccgt ttcctacgat ttgactctac ttttgattcc ctttccagcc accaaatcaa 120  
 accaatacct cactgtttca tagctttttt cttcaaccca acttcgtggt caacaatgat 180  
 ggattcagaa ggagcactgc ccaggttca ggaaatagag caagaagggtg tcggtggagg 240  
 gactaacaag aagatgga 258

<210> 18925  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957796H1

<400> 18925

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tcctgttgca gttgtgggtcc ctggtgggaa tgtgccata actactattg aaaagtcagt 180  
 tgtgtctgta tctcctcttg ctgatcaatc cagaaatgat cagaatgttg agaagaggat 240  
 tatgtcagat gag 253

<210> 18926  
 <211> 68  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957805H1  
 <400> 18926

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 atgacttt 68

<210> 18927  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957807H1  
 <400> 18927

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 tgggtgctgtt tgaagctgat atttacaacc caaatgattt tgaccttgca attgaaggct 180  
 gcaagtttgt gtttcatgtt gctactccca tgatccatga acctgggtcc cagtacaagg 240  
 atactagtga agcg 254

<210> 18928  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957808H1  
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 tgggtgctaca gctgcacccg tttcgtgcac ctctctgtcc aaagcaccat cgctgcccc 120



cactgtcaaa gcggtttcgt cgaagagatc cgtgccggcg ccggagccga agcctcgcca 180  
 cgccatcgac taagtccttt ccccgatgat cctcttttgc tccggcgaca gggcttccgc 240  
 cgccgtagga gagaagc 257

<210> 18929  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957810H1

<400> 18929

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 tcctattggt ttggctaaag tagatgccaa tgaggagaag aacaaagacc ttgcatcaca 180  
 atatgatggt aagggattcc caacaattaa tattctgaga aatgggggaa agaattgttca 240  
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<210> 18930  
 <211> 255  
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 <213> Glycine max

<223> Clone ID: 700957811H1

<400> 18930

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 tggatgacga gccagaggaa attgatgacc cagaggcgac aaaacccgaa gactgggatg 180  
 atgaggagga tggatgaatgg gaagcccaaa agattgaaaa cccgaagtgt gaggcagccc 240  
 ctggttgttg tgaat 255

<210> 18931  
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 <213> Glycine max

<223> Clone ID: 700957812H1

<400> 18931

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<210> 18932

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700957813H1

<400> 18932

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gaattcaatg acacagaatc tgaagcatac cgtggatttg gaatgcagtg ataatagcag 120  
gccgtcaaag atatcaaaaa tcgagtatcc gagtgcacagt gacattgacg aagaagaaga 180  
aggaatgagc caaaacccta ggaatgggat tcagcgctat ttggttgcaa tcgagtatat 240  
tgggactctc ttctc 255

<210> 18933

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700957815H1

<400> 18933

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ggccaacgag atctctgtct ccgccgaaga ggaattcaat atcgagaagc tgcagttggg 180  
cgaagccgac aagaagaaga tcaggcaaga atacgaacgc aaagagcgcc aagttgaaat 240  
tcgcaagaag attgagta 258

<210> 18934

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700957816H1



<211> 212  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957819H1

<400> 18937

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caatgtgtat attaagattc ctgctacaga ggcattgtgt ccttcaatta aggaagttat 180  
tgctaattggg ataagtgtga atgtgacgct ga 212

<210> 18938  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957820H1

<400> 18938

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tctctcaat tccattcatt tcaactcaac aatctctcct atccgtcaaa caaaatataa 180  
aagatagaaa accctagttc tgtaaatata taaaggaaaa aaggtctgat agatacccat 240  
tgtcaataag atc 253

<210> 18939  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957824H1

<400> 18939

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agaaatgata aaaacacata acaaaaaaaaa aaagtgaata atggcgagcg cagtggagaa 120  
ggaggggtggc gcgagccagg aaactttgtc tttggagctt cctgctccac ctgggttgaa 180  
gaagcagttc attccaaaga aagctggtac cccaaagaaa aacgagattg tgttactgac 240

accaacagga gaggag

256

<210> 18940  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957825H1

<400> 18940

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ggactcggga atttggaaca aaaacagttc cccaaatctt gctttttgtc ttgttcttgt 180  
ttctaagtcg ttaatgtcag tgcagcgaag taatctctgg caagttgatt gtggcagggg 240  
agaggagggt t 251

<210> 18941  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957827H1

<400> 18941

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gtggaggatt cagtcgttgg agaagagcgt tagaagcctt gacttctctc cgaatgggat 120  
atcgacaata gttcagggtga acgaccttaa gaactctccc ggactgggca agagggaact 180  
gaggcaggcc accaatcagg cccttcaact gcttcaggac aactaccctg agttcgttgc 240  
caagcagata t 251

<210> 18942  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957828H1

<400> 18942

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cctgatatgg ttcgcgctgc tcttcgttgt cggattgtta acgattctca aattggcttt 120  
 cgttgttttc agatgggtct acgtcaatct cctccgacca ccgaagaatc tcaaaaagta 180  
 cggatcttgg gcagtgggta ctggaccacac tgacggcatt ggaaagagct tcgctttcga 240  
 gctcgctcgc aaggg 255

<210> 18943  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957782H1  
 <400> 18943

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 tgctagttct gttgttgtca acaaggactc cgtaattcct aataataata aattcctgac 120  
 ggcctataca aatattgtgc caaagctaaa aaatgctaac ctctcagttt ttgtagaaac 180  
 attcagcaat gagtttgtgt ctcaagcatg ggatttcttc tcagatccaa ctgttgagat 240  
 caactcgtat attgagggag ca 262

<210> 18944  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957754H1  
 <400> 18944

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 ttccgctgac tctgaccttc tctggcgagc tttctcccct tctgattact ctgacattgt 180  
 ctcaagggtc ctgagccgcc tctcgcttaa ttctgtttct tcatacaaac acctatgcta 240  
 tgctctgtgt catccactcc tc 262

<210> 18945  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957755H1

<400> 18945

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acccttctct atcgctcgct ttcctttgac gcttctgacc cttgctttgt ctgctcttc 120  
cttctttctt tctttctgtc tctgtgtgtc gtaatggctc tcccagactc ttcttcccgt 180  
cgcaactccc tgatcccctc cttcatctac tcgtcttc 218

<210> 18946

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700957756H1

<400> 18946

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gcggtggccg cgtgccgacg ccgacgacat cctgatccgt caggtgggtgc cagatgttgg 120  
cgaaccgaag aggaggacaa cctgctgaac gccgagcacc acttcgcgcg cttcaaggcc 180  
aagttcgcca agacctacgc caccaaggag gagcacgata atcgcttcgg cgtcttcaag 240  
tccaacctcc gcagagccag gct 263

<210> 18947

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700957758H1

<400> 18947

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gttccactcc cttcccctat gttttttct tctcttgccc ttcaacacaa aaccctctc 120  
agcagcagaa ccagagccag tggttgataa gcaagggaac cctttggagc caggagtagg 180  
gtactacgtg tggccacttt gggctgatga aggaggcctc aactaggcc aaacaaggaa 240  
caagacatgc cctctttatg t 261

<210> 18948

<211> 257  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957759H1  
  
 <400> 18948  
  
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 tcgagtcttt ctgggatggc aagagcagcg ccgaggattt gcagaagggtg tcttctgata 180  
 tcagggcatc catctggaag cagatggctg atgctgggat caagtacatc cccagcaaca 240  
 ctttctctca ctatgac 257

<210> 18949  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957760H1  
  
 <400> 18949  
  
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 agaagggtgcc accttgtgca atgccttgta aagtacttca tacaagaaga agaagcccct 120  
 tgccctttga aatatgatga agccatgttg gaggaggaag aagatgaaaa ggactttgtt 180  
 cttttgactt caattattag tgaagtttat atatatatgg taatgttaga atttggaag 240  
 atgtgttcgt gttcatgtt 259

<210> 18950  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957761H1  
  
 <400> 18950  
  
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 acaagcacag ttgaaaatgg ctctgcttac cctctcttcg ctgcaatgaa gacacgtttg 120  
 tctttcttct ccgaagaaga aaaatggctc tcggcgacga tgcgcacacc actctccctc 180



gttcctcgat gcccttctct gcgaagagcg agaaaccttc gaggaagact ttgatgagaa 240  
cggttatgag cgtgaga 257

<210> 18951  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957762H1  
  
<400> 18951

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gctttcccca aatcccaaac cccttttcgc ttagatccca atccaattgg gttatggaca 120  
tggtctccag tccccgcacc gtagaagaca tcttcaagga ttacagcgcc agaagaacct 180  
ctgttattcg cgctctcact cacgacgttg atgaatttta cggcctctgt gatccagata 240  
aggataacct gtgcctcta 259

<210> 18952  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957763H1  
  
<400> 18952

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caggcttcag aagtacgcac tccgatctgc caataagttg aaggaagaga agtcagaaac 120  
tccaattgc tccattccta cttctgaaac catgaggggg agaagtgtag gtgcttcaag 180  
tgtaagtaaa agtgtgagtg ttcttgattt ttctggcaag gacaagtctg gtagtgccaa 240  
gccaccaga aggctctcaa t 261

<210> 18953  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957764H1  
  
<400> 18953

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 agagcggtca atttgaagag ttgcatttga gaaatggcat cggctttgat ctgcggttct 180  
 tcgcgtaggt ttctcaaacc ttgttcttct tcggtatctc tttaccctgc catcttcaat 240  
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<210> 18954  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957765H1

<400> 18954  
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 aaggaagccc cgaccccgaa agggctgccg tccgatgggt acacgaaagt gacgaagttg 180  
 ctttgactac agaaccatgc ctgtctgttg gagtgaattg gatgatcggg ccgagggctg 240  
 cccctcttc cctcactct cctttc 266

<210> 18955  
 <211> 262  
 <212> DNA  
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<223> Clone ID: 700957767H1

<400> 18955  
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 acaatgatgg catgaatctc tcagcccctc aaaccttccg ctctaaggaa atctccaaga 180  
 gcaatgttgt tgacgatatg gtcaacagca acgcatcct ctatgagccc ggtgaacatc 240  
 cagaccatgt gggtgtcatt aa 262

<210> 18956  
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<213> Glycine max

<223> Clone ID: 700957769H1

<400> 18956

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<210> 18957

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: 700957770H1

<400> 18957

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gtgctgacct tgaaaagttc tccaagtcg acatgagata aggctgctgc tgctgctgct 180

tttcaaagat gttggagctg gtttcaatta gtagacaaat ttgggtgctg aatttcgtgt 240

tcatgtgtct tcaatagatg 260

<210> 18958

<211> 69

<212> DNA

<213> Glycine max

<223> Clone ID: 700957771H1

<400> 18958

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<210> 18959

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700957772H1

<400> 18959

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 ttgacgcgca caatgcagct cgtgcagagg ttggtgttga gccactcgca tgggacgaca 180  
 ccgtcgcagc ctacgctcag caatatgcgg actcgaggat caaagagtgc caagtagtgc 240  
 actctcaggg gccttatggg g 261

<210> 18960  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957773H1  
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 tgcaaacctc tccaatgttt ctcgaaatta tatgaccatg cgtcgaattc gtatgctgca 180  
 ctcttctcc gtcgtgttcc tctactggtt ctacgttttc tcatgaactc cctctcaaat 240  
 ccgtaattaa ttagatcga 259

<210> 18961  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957774H1  
 <400> 18961

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 aatctcctgc tctggaaaag ccacttaact actcgттаат atggagcctg gattcacatg 120  
 atgagtgtgt ttacttttgg ttgccaaacc ctccaacagg ttataaagcc atgggcatag 180  
 tagttactag cagtcctaag gaacctgaag ttgaagaagt tagatgcgtg cgagatgatc 240  
 tcacagaaac ttgtgaga 258

<210> 18962  
 <211> 258  
 <212> DNA



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251

<210> 18965  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957778H1

<400> 18965

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gttcccaactt gggcttttga tcacatcaaa tacttcaatg gaggttctga gattcaactt 180  
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ttcagcatga acataa 256

<210> 18966  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957779H1

<400> 18966

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gctcgtaaata tatgttcttg aaaagtacat agatcgattg ttttgagctc gattaagttt 180  
gcctacggga agtaatatca attattagtt atgttgatgt caacgaagac aatgagtatt 240  
ttgatttgtc gagttttg 258

<210> 18967  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957780H1

<400> 18967

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 caatccaatc attgccaaga tgtaccaagg tgggtgctgg ccagacgtgg gtgggtgctgg 120  
 tgcagcagag gatgagtatg ctgctcctcc ttctgggtgga agtgggtgctg gcccgaagat 180  
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<210> 18971  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957715H1  
 <400> 18971

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 aagaattgga agagattttc ccgaatgcat tacaggtgaa ccttagctat ggaattttgg 180  
 ctgtaacttt ttgttcgtaa acacaaaagg aacaatagtt taggttaatg tttgtttttc 240  
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<210> 18972  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957716H1  
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 atgggcaaca tcattctcctt tggagtgttc cttgctccat tgccaacctt ttaccaaadc 180  
 tacaagaaga aatccactga agggttccag tcacttcctt atgttggtgc actgttcagt 240  
 gcaatgcttt ggatttacta tgctt 265

<210> 18973  
 <211> 271  
 <212> DNA



<213> Glycine max

<223> Clone ID: 700957719H1

<400> 18973

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catcatcatc accgttgatt gaagaagatg ccatcagaa acatcgccat cggaaggcct 120  
gaagaggcta ctcaccccgga caggttgaag gcgggggttg ctgagttcat ctccaccttg 180  
atcttcgtgt tcgccgggttc aggttcgggc atcgccctaca acaagctcac cgacaacggc 240  
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<210> 18974

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: 700957720H1

<400> 18974

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gaggggagaac cgccgccgcc gctgccgccg ttgtggatcc cacgccggac caggccaagg 180  
agacgacgcg gttccgtggc gtgaggaagc ggccgtgggg gcgattcgcg gcggagattc 240  
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<210> 18975

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700957723H1

<400> 18975

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taatatcgaa tctactgaaa tctgaaaaag cacttggtga gcatgcaatt gagctacgag 180  
ctgatctata gaatgctgca tctgatgtgt caaacctgtt ttctaaaatt gagcggaagg 240

ataagattga ag

252

<210> 18976  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957726H1

<400> 18976

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tcgcttcac atcctcacca ttctcctttc cctggcactc tcagatggag gttccattgg 180  
agttaactac ggtcgtatag cgaacaacct cccctccgcy gtgaaggctg ttcaactcct 240  
caaatcccaa ggactgacac gtgtc 265

<210> 18977  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957728H1

<400> 18977

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gatgggaact tgatggtgtt ggggaacaaa gtgctgagcc atgtccatga caaggttctt 180  
gttaccctg catgtggtgg tgctttgctc aatggggcat tcattggggt tcaatcccat 240  
cacaagggtg gccgcacagt ct 262

<210> 18978  
<211> 110  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957729H1

<400> 18978

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ttttgctttt ctttgcgtc gttttt

266

<210> 18982  
<211> 171  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957733H1  
  
<400> 18982

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tcaccacct atccgccgcc ttctccgccg tcagatctga tccctcagat caccgctaca 120  
aagaaggcga ctccgtccct ctctacgcca acaaagttgg ccccttcac a 171

<210> 18983  
<211> 156  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957734H1  
  
<400> 18983

cgacaggcga aagacatggg gaggatgttt ggggtgcatt tttctggtgt aattcacaga 60  
aaggtgggat gcgcattgta cctgcatctc gcattcctga cagtagtggg gcagcctctc 120  
atccagatgg acctcaagtg attgggttga ccagtc 156

<210> 18984  
<211> 187  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957735H1  
  
<400> 18984

cgacctaa caagaggagt agagagaaga gaggaagttt tgggcgttga atctatagaa 60  
tagaatcaga ccaaattgaa agaagatcga tcgatcgatc gatggctctg gtcggagttg 120  
agatgaaaca tgcggcggag ggcgcacggg ggaagaattg ctccgccagg cccaccaggc 180  
agggcga 187

<210> 18985

<211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957737H1

<400> 18985

cttcgttcct tgcattcatt ccatttcttc caaaatggcc aaagaccag ttcgcgttct 60  
 cgtcactgga gccgcagggc aaattggata tgctcttgtc cctatgattg ctaggggagt 120  
 gatgctgggt cctgaccagc ccgtgaccc cccatgctt gacattcctc cagcagcaga 180  
 gtacttgaat ggggttaaaa tggaattggt ggatgctgca ttccctcttc ttaaagggtg 240  
 tgttgctaca accgatgtgg ttgagg 266

<210> 18986  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957738H1

<400> 18986

cactcataac acaaagcaca aagcaaagct catccttgag ttaaaaaatg gcagcagctt 60  
 cttccatggc tctctcatcc ccaccccttg ctggcaagcc cgtgaagctg ggcccatcag 120  
 ccccagaagt gggaagggtg agcatgagga agaccgtcac caagcaggtc tcctcaggaa 180  
 gcccatggta cggccagagc cgagtcaagt acttgggccc attctctggc gagcccccg 240  
 cctacctaac cggtgagtcc ccagg 265

<210> 18987  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957740H1

<400> 18987

agaacactac cctgaacata gtaaagaagc cagtgctagg atttgtagt gaagcaatgg 60  
 ctcaaaccat gttgctcatg tctagtgtct ctacagctta ttccgtggat ttgaagaaag 120  
 accttttctt ccaattgcag agtcaaagtt taaggcctaa gttctctcag ctctcattca 180



caggaggaga gatatgagga tagcgtttag tgtcagtga aaagagaccg tgacatttaa 60  
 atttcgactg aatagatatt ttagtccgtg atatttaaatt ttctcattca ctttattatt 120  
 ttcgcttctc ttttcatttt tatcaccctg ccacacattc acatttccac ttcctatgta 180  
 caattttata taattatata ctatcatgtc agtttctcct tgaattatta attatttaatt 240  
 atgacaaaaa taattattca 260

<210> 18991  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957746H1

<400> 18991

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 agcagagttt gtggccactt ttctgtttct ctacatcacc gtcttaaccg ttatgggagt 120  
 cgccgggggt aagtctaagt gtagtaccgt tgggattcaa ggaatcgctt gggccttcgg 180  
 tggcatgatc ttcgccctcg tttactgcac cgctggcatc tcagggggac tcataaacc 240  
 ggcggtgaca tttgggctgt 260

<210> 18992  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957747H1

<400> 18992

ctctgtccca attccctata attcaattct ctctctctct cgcttaacct ctccctccag 60  
 gtggctcttc cgcattctgc caccgcctcc gccgtcgccg ataatcacta atcaatagat 120  
 ggatgattcg gcgttcaaac gagacgggtca ctttaactga acttactcct gctcttctca 180  
 gagagatgtc cgttacagct gtggcacttg tggttatgag ctgaacctgt cctcctcgaa 240  
 ccggaacact gcatccattg g 261

<210> 18993  
 <211> 71  
 <212> DNA





<213> Glycine max

<223> Clone ID: 700957711H1

<400> 18996

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 cttttctttc ctctgtacaac ccaccacatt caccaaatcc ttcaatatta acatattcac 120  
 ctccaacttc tatacttgta gtttttattt catttccctt tcaactcttt tgcttatttg 180  
 tttccagaga gaggaacatt aatatataca aactaaacat ggtgttggt tccccaaact 240  
 caataaggcg cgaagggtt ctaccag 268

<210> 18997

<211> 232

<212> DNA

<213> Glycine max

<223> Clone ID: 700957646H1

<400> 18997

cagaagcagc aaaagcagct gagaaaaatg ctcttgacca tattacagtt ttaactgaaa 60  
 ggactactgc tgcacgtgca tcaacatctg aatctggtgc tgtgattacg atctcaaagg 120  
 aggagtgtga ctactaagc cataaagttg aggagtcaga taaattagca gatatgtaag 180  
 tggctgctgc caaggcacag gttgaagctg tgacggctag tgcaaatgag gc 232

<210> 18998

<211> 243

<212> DNA

<213> Glycine max

<223> Clone ID: 700957647H1

<400> 18998

caaattcttt gagttgaaca caggggccaa gattccttct cttggggttag ggacttggca 60  
 agctgaacct ggtgtttag ctgaagctct caccacagcc attcagggtg gatacaggca 120  
 tattgactgt gctagtgcgt ataagaatca agcagagatt ggttctgctc ttaagaagct 180  
 ttttgatgat ggtgtggtga agcgtgagga acttatggat cacgtccaca ctctggtgtt 240  
 cag 243

<210> 18999  
<211> 124  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957648H1

<400> 18999

ataaaatgtc aaagacaagt ttccttgact tccaatacaa cctctcaagg agaaaatacc 60  
tgaggaagcc atcgcgcctg ttctcccggg acaggcagaa ctctgggctt aagggtgtgt 120  
ttct 124

<210> 19000  
<211> 207  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957649H1

<400> 19000

caatgtcatt aatgggtggat cacatgctgg aaacaaactt gctatgcagg agtttatggt 60  
tcttcccgtg ggagcttcct ctttcaagga agccatgaag atgggtgtag aagtatatca 120  
caatttgaag tctgtgatta agaagaaata tggtaagat gcagtaaata ttggtgacga 180  
aggtggcttt gccctaaca tccagga 207

<210> 19001  
<211> 151  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957651H1

<400> 19001

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acatcacaaa aatctccaat taccgcattt cctcctccgt agtccgttcc ccgaaccgga 120  
caaaacctga cattgctccg gatcccggag a 151

<210> 19002  
<211> 135  
<212> DNA

<213> Glycine max

<223> Clone ID: 700957656H1

<400> 19002

cgcggtttta gttgtgatca ataagtcgat agttagaaca atagtcttgg tataaggacc 60  
 ttgccaataa ttttttagtt ctgattcaca gagctaagac agttccgtct tagacttta 120  
 aagttttgat attta 135

<210> 19003

<211> 236

<212> DNA

<213> Glycine max

<223> Clone ID: 700957660H1

<400> 19003

cagttagtagc aaaaaagggt tacttcagct tccacatatac ttgaagaagt gatcaatggg 60  
 caagtctgta gttgagaagc tactttggat ggcaattgtg tgcttggtgc tgggtgta 120  
 ttccattact cccaaggccc aagcagcagt gacatgcaac caggtgggtga gcaacctcac 180  
 cccatgcatt tcttatgtgc tcaatgggtg caaaaccgtg cctggccctt gctgca 236

<210> 19004

<211> 118

<212> DNA

<213> Glycine max

<223> Clone ID: 700957663H1

<400> 19004

ctttgcaaca caacaaaaaa gggcaacaca gagagaagcg tcttaataaa cgctcttctc 60  
 tgaaaaacct gatttcttct cttcttctct tctctttcgt ttcgatcttc gatctctg 118

<210> 19005

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700957665H1

<400> 19005

ggatggcttc ggtgtcaaca cctacaccct tatcaacaag gccggcaaag cactctatgt 60  
 caaatttcat tggaagacca cctctggcga aaagtctctt ttggacgacg aggccatcag 120  
 ggttggagga tccaaccaca gtcatgccac ccaggacctt tacgattcaa ttgctgctgg 180  
 aaactatcct gagtggaaac tctacatcca aacattggat cccgaaaacg aagacaggct 240  
 tgactttgac ccccttgatg tt 262

<210> 19006  
 <211> 100  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957667H1  
 <400> 19006

ataatttcag atctcgtcga tcttgagctt caacaatggc gaaaccaagg tactctcgtc 60  
 ttccacctcg caagtcacg tcgtcttcca cgctgattct 100

<210> 19007  
 <211> 238  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957671H1  
 <400> 19007

caaaaaccgt acaacaaggt tgtttttatt ttgttttggt ttttctctct aatcattcga 60  
 ctggccaaag aaggacctaa ctgggacggg ttgctgaaat ggagcattgc tactccgat 120  
 gggactagcc ctactcgcaa tttaagttag gaggatcgaa aatggtttat ggaagcgatg 180  
 caagcacaga ccattgatgt tgtaaaacgt atgaaagaga tcacacttgt gatgcaaa 238

<210> 19008  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957673H1  
 <400> 19008

gatggtagg actctgtagg ctgatgtaga caacactcat accgttgga agaaggatgc 60

tgctggccat gttgcttaat ttagttcttg cttcctttgt cttcttgagt tttatcagag 120  
 acgggagtg agggatcact agctctttca ttcggtcaga gtggccggca gttgacatcc 180  
 cccttgatca tgaagcattt gcagttccaa agggttataa tgcacctcaa caagt 235

<210> 19009  
 <211> 231  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957674H1  
 <400> 19009

gtgacacaaa tctagggagc gctactctaa aagtcttatt agattcttca aaacatggcc 60  
 atgcatcgcg agtcttgggc ttttgtcttc ggcgttatgg gcaacatcat ctccctttgga 120  
 gtgttccttg ctccattgcc aaccttttac caaatctaca agaagaaatc cactgaaggg 180  
 ttccagtcac ttccttatgt tgttgactg ttcagtcaa tgctttggat t 231

<210> 19010  
 <211> 231  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957678H1  
 <400> 19010

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 attgatcaag agaggaatag tgacttccta agcatgctgc gagggtttgt tgcaaatcaa 120  
 gcaggctatg cagagaagac agcaactgtg tgggagaagc ttgcggaaga aacggctgct 180  
 tacttgagag acagcagcta aaatgtactt ggctgtaaata tcttattttt g 231

<210> 19011  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957680H1  
 <400> 19011

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gccaaagtgcc tccagagttg agatcacctc ggaataaaac ttggagaatt attacaattt 120  
tcaaggtgac aaaagtgcac gtcagatttt tttatcctta taaaatcgaa gacaagtatg 180  
gtaatttaca acagcctgct caatcaagac ctcctggtaa aggagatgtc at 232

<210> 19012  
<211> 237  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957683H1  
  
<400> 19012

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ggtgctgggg actttgatgt gaacggtttt gtggagagtg tcaactggctt tgcagctgaa 120  
aacctgcaa ttcttgctgg gggagtagct gttttggcag tgccattggg tttgtctcag 180  
gttcttttca agaagcctaa ggcttgctgg tgttgagtct gccagaatg cttatgc 237

<210> 19013  
<211> 237  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957684H1  
  
<400> 19013

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atggctccga aggcagcaac aactattctc ctgaagatag atgtctaagt caaaacacaa 120  
gtagtgagga aaactcacct gtgatttctt gccagctag tcctcctaag gaggccaatg 180  
atcacaaaga tgactcccag aacagtagtg ttgggtctaa tatatcgctt gatataa 237

<210> 19014  
<211> 109  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957687H1  
  
<400> 19014

gaaaaacaaa accctcactg agcgtgctg ctttgagaga gagatggctc cgaaccttga 60

atgtcgtatg tacgaagcga agtaccgcga ggtggacatg gcggtgatg 109

<210> 19015  
<211> 227  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957689H1

<400> 19015

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tcgatggtcg ccaatatgat gctaagatga gtgaattgct ttccactgat gggcaagaag 120  
tcttcacctc ttatgatgaa gtgtatgaca gctttgatgc aatgggattg caagagaatc 180  
ttctgcgagg catatatgct tatgggtttg agaggccttc tgctata 227

<210> 19016  
<211> 225  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957690H1

<400> 19016

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cttgctatta ctacactttt gaaaacagga aatgaatcta gtgtggatcg tcttatgaag 120  
cagatcacia atttcatgtc tgatattgct gatgagttca aaattggtgt tgttgaagca 180  
ataagatcat tgtgcctgaa gtttccttta aaatatcgat ctctg 225

<210> 19017  
<211> 62  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957691H1

<400> 19017

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aa 62

<210> 19018







<400> 19024

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 attcttaact cttaagaact gattcaccaa cgacccctct gaatttcaga aactatcaat 120  
 gaagggggaa gtgcagcttc agcctccagc ggttatgcaa aaccctagtg attcggaccc 180  
 tttgctccat aaccaggagg aggaggagga ggatgagtca ccgggaagct ctggtgagat 240  
 caagaatgag gaagaagacg ttgaggctgg a 271

<210> 19025

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700957706H1

<400> 19025

gcacttagtg ctattcaata attacgaaaa accaacagcg agtgttggtt ttgtttggtc 60  
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 gcggcgaagc aaacgcagaa tcggcggcag aaattgccac cggaagcacg tcgaagacgg 180  
 gtgaacaaaa cacaaaattc catccaccac ttctctcttc aatccccaac tcaaattctgt 240  
 gaagaaaatc tcaatttcta aattg 265

<210> 19026

<211> 266

<212> DNA

<213> Glycine max

<223> Clone ID: 700957708H1

<400> 19026

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 ggatcgagag tgatgaggac ctgttacttt gtacaatgag cagaggaggc attatgatag 120  
 cataattctg gaaaggtgtg atttctcttg tattatcaca taaagattat taccctctct 180  
 aacagtttat agctgtaggc atggttcttg tggattaggc attatgtagg atggcaaata 240  
 ttgtagtttg gtaataatta tttatt 266

<210> 19027

<211> 221  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700957709H1

<400> 19027

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 atctacgcgg gaaggcagcg gtagcccaag cagcattggc ttaccagctc taccaaagga 120  
 aattttctgg tccaaggtgg gaagctctag ttaaaaaggg ggccaagaag caaaggctcc 180  
 tctgggcctc aaccagtgtg aagaatcctg cctattctga c 221

<210> 19028  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957601H1

<400> 19028

ttaaaatata agagatagaa ttaactcgac tgcaagtgc acaagaacac aggatagaaa 60  
 atttgaatgg agagtggtag agactattcc ctgtttgaga ctaggaaaga caaaggaagg 120  
 cacattcgaa ggatctatgc aatctctttg tttgtggcca tatgcttcat ctgggcttac 180  
 agattgagcc acataccgc atatggcaaa tgggcttggc ttggtttggt tgctgcagaa 240  
 ctctgggccg gtttctattg gctcttt 267

<210> 19029  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957603H1

<400> 19029

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 gaggatttca gtgatgatgg cgacaaacat gcccttgaag aggtagactt gtgttttcat 120  
 gttttataac tgatttacct atctgaatat gtaatgaaat tccccctaaa gaagaatttc 180  
 aagtcttttg gggtgcgttt ggtgttgccc atgctagcaa cggcaatgaa tctgcaatga 240

gtgtgtttgg actggtgtt

259

<210> 19030  
<211> 268  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957604H1

<400> 19030

tcgaggaagc atggaccaa ctgctactac cgaaacaggg cagagtgatc ttttgtctat 60  
tatacgtcca atgcttgttt atacaggctt gattgaacag ttacaacgtt tcttcaaggt 120  
caagaaatca actagtgcaa caccacctgc aaggactgaa ggggcttcat ctactataga 180  
aggggaagat gaaagtggaa atctggaagg ctgggaagtg gtaatgaaag agcgactctt 240  
gaatgtaaaa gaactgctcg agttcccc 268

<210> 19031  
<211> 266  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957605H1

<400> 19031

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tgatttctgc gtttctcgga gaatttgtct tcaaaaaaga agggcaacca gtggatttat 120  
gtcgtctggg tttattctgg cagtgattgg ggctccgttg aagctcttca ttgtatatgc 180  
tttcgtttct ttcttcttga ctctctttgt ttgctactgt tgctgtatgc tacactgcat 240  
tctgagccac aatactgtga acctac 266

<210> 19032  
<211> 179  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957606H1

<400> 19032

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cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac 180

cctgacagca aggttgcttg tgaaacctgc accaagacca acatggtgat 230

<210> 19036  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957611H1

<400> 19036

tcgaggaaga attaaaagga attgaagaag atccaagata ggttcatatg gagaggtata 60

ccatgctgac tggaatggca cggaggttgc tgtgaagaaa tttttggatc aggatttttc 120

aggcgctgca ttatcagaat tcaaaagaga agtgcgata atgcgtaggc tacgtcatcc 180

gaatattggt ctttttatgg gtgctgttac tcgtcctccc aatctgtcaa tcatttcaga 240

gtatctacca agagga 256

<210> 19037  
<211> 102  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957612H1

<400> 19037

tcgagacgtt ttcaaatttg aagtcaaaca cggtcaactg tcgtctttgt aattcattcc 60

catatcgta aaggtgggga aatttgcttc cacacaacat ac 102

<210> 19038  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957615H1

<400> 19038

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agcaatcggc gattaggagt gagagtgata tggagggaat tgcaggaaat agcagcagat 120

acagtctgaa accctcgca atttgcaacg aagatattct gatctgcgtc gacgtcgatc 180

ctcagtgcct cgtcgaaatg caaggtgcc a cgggtcccaa tggcagaccc ctcacccgtg 240  
tggactccat caaacaagcc atcgt 265

<210> 19039  
<211> 261  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957616H1  
  
<400> 19039

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ggcctcaa at tgggtctacct aaagatcaaa gccctccacc ttacacgaga ccagatgacc 120  
tcaagacggc atggaaggtt ggtgttctca ctgcggtcat caagcatatg tcccctgata 180  
ttgccaaa at tcgcaagctt gtgaggcagt ctacgtgtct tcaagacaaa atgactgcaa 240  
aggctagtgc tacctggctt g 261

<210> 19040  
<211> 183  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957617H1  
  
<400> 19040

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gcgagagaaa gccatgccag agacgaagat ttttggcatg ctgtttggcc aaacactccc 120  
attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttgc aatcgatgat 180  
cac 183

<210> 19041  
<211> 201  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957620H1  
  
<400> 19041

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<210> 19042  
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<213> Glycine max  
  
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<400> 19042

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<400> 19043

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caagtcgac agcccctcca gggtctgtgc gatgtggaat gcggcaagga gttcattttg 180  
tgcaataca atcgagatgc cgactcttac agatcacctt ggtccaataa ataccatcca 240  
ccattagaag atgg 254

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 <213> Glycine max  
 <223> Clone ID: 700957625H1  
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 gtaacgccac cgccacaaca acaacaacaa caacgaacct ctcacgaaga aaaaccgaag 180  
 ccgataacca gtgttt 196

<210> 19046  
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 <213> Glycine max  
 <223> Clone ID: 700957626H1  
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 cagcccgaat tccttcccct cactccttct caatcggggt cgttcattct cctcttttag 180  
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 agtgtctc 248

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<223> Clone ID: 700957627H1

<400> 19047

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<210> 19048

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700957628H1

<400> 19048

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tgcgtaaca aggtctaactc cgaactttca tcgcaccaga agaagatctt caaggctcgac 180  
aaccacatcg gcgtcgccat cgccggcctc accgcccagc gccgcgtcct ctcccgtac 240  
atgcgat 247

<210> 19049

<211> 173

<212> DNA

<213> Glycine max

<223> Clone ID: 700957630H1

<400> 19049

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<211> 245

<212> DNA

<213> Glycine max

<223> Clone ID: 700957631H1

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 ctggagatgg ttgtatgatg attctgcaag taagtgatct accatatgtc tctatgtcaa 180  
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 atatt 245

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<223> Clone ID: 700957632H1

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<223> Clone ID: 700957637H1

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<223> Clone ID: 700957595H1

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cgcttctttt tg 132

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<223> Clone ID: 700957638H1  
  
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agactatgaa 130

<210> 19055  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957639H1  
  
<400> 19055

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cgtgatagcc tctattcatc agccaagcag tgaagtgttt gagctatttg accaattata 180  
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tgcacaa 247

<210> 19056  
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<213> Glycine max  
  
<223> Clone ID: 700957643H1  
  
<400> 19056

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aggaggcacc cccagctcct ttgtttgaac ctggtgagct caaatcatgg tccttctaca 180  
gagctggaat tgctgagttt gtggcaactt tcttgttctt ctacattacc atcttaact 239

<210> 19057  
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<213> Glycine max

<223> Clone ID: 700957644H1

<400> 19057

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ctat 124

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<223> Clone ID: 700957545H1

<400> 19058

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tcatgccctc aggctgtaga catca 145

<210> 19059  
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<223> Clone ID: 700957547H1

<400> 19059

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atcttcttcc aaaaccccc ccaaaaaaag agaagaaaaa atcatgcaaa gcaggga 117

<210> 19060  
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<223> Clone ID: 700957552H1

<400> 19063

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ccaactttcc cgtcgcccgc gtcg 144

<210> 19064

<211> 143

<212> DNA

<213> Glycine max

<223> Clone ID: 700957554H1

<400> 19064

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<210> 19065

<211> 148

<212> DNA

<213> Glycine max

<223> Clone ID: 700957556H1

<400> 19065

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ctgtttcttt gcccaaaaga agactacc 148

<210> 19066

<211> 237

<212> DNA

<213> Glycine max

<223> Clone ID: 700957557H1

<400> 19066

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 attaccacca aggaacttgg gaccgtgatg cggtcacttg gccagaaccc aactgaggca 180  
 gagctgcagg acatgataaa tgaggttgat gctgatggga atggtaccat tgatttc 237

<210> 19067  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957558H1  
 <400> 19067

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<210> 19068  
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 <223> Clone ID: 700957559H1  
 <400> 19068

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 aggtttctgt atgagccgat gtgggaccca cggctcttcc gcttctcatc tgaagaagaa 180  
 cagcaagagc tacaagtctg cctacatctg ggtgggaaac tccgaaaccc aatgccc 237

<210> 19069  
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 <213> Glycine max  
 <223> Clone ID: 700957561H1  
 <400> 19069

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 gctccaagcc atagcgcggc agagcaaggg cgttcatgtg cccaagagc ttttcatggt 180



gctccacgag atgcagagga acttcctttg gtcaccagag caaggagcag ataagag 237

<210> 19070  
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<223> Clone ID: 700957563H1

<400> 19070

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<210> 19071  
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<223> Clone ID: 700957565H1

<400> 19071

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 gatcttattg acatcataac cacaatagct tgggtagcat ctggatcatca tgcagctgtg 180  
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<210> 19072  
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<223> Clone ID: 700957567H1

<400> 19072

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 aacaaaagca attgcagcta aaatatcaaa ttgggacaat gttgttttgg cctacgcgcc 120  
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<210> 19073  
 <211> 102  
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<223> Clone ID: 700957568H1

<400> 19073

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<210> 19074  
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<223> Clone ID: 700957570H1

<400> 19074

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 atatgcattt tttgtagtcg ggatggattt tggatgattg tctgagaata gcaggggtac 180  
 atataacaag tgggatggaa tagctgcac tacagtacag gtctatcccg gagcatggac 240  
 agcaatttgg ttct 254

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<223> Clone ID: 700957571H1

<400> 19075

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 ttatttgtga gtctcaaaac cttagcacac tatatataca ctgcatagcc ttgggggtctt 180  
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 tacttcactt gctgct 256

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<223> Clone ID: 700957572H1

<400> 19076

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tcaggatgaa gtggccgctg tactcattgc taaaagaacc ctg 103

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<223> Clone ID: 700957573H1

<400> 19077

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acactctaaa agga 134

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<223> Clone ID: 700957577H1

<400> 19078

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tatggcatcc tggatgattt tatcacaaag caacttcac ataatgtga 229

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<223> Clone ID: 700957578H1

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<400> 19079

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 acttcatacc ggcaggtccc gccagcgggg cgcggcgcgt gaccgccgac atcctgtggc 180  
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<210> 19080

<211> 170

<212> DNA

<213> Glycine max

<223> Clone ID: 700957579H1

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<210> 19081

<211> 97

<212> DNA

<213> Glycine max

<223> Clone ID: 700957582H1

<400> 19081

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<212> DNA

<213> Glycine max

<223> Clone ID: 700957585H1

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<400> 19085

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gaatacaaat cagctgagag agagaagctg gagaaggagg gatacagaat cattggaaac 180  
gttgagacc aatggagtga cctcctggga agcaacaaag ggactaggac ttttaagctg 240  
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<210> 19086

<211> 109

<212> DNA

<213> Glycine max

<223> Clone ID: 700957588H1

<400> 19086

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<210> 19087

<211> 226

<212> DNA

<213> Glycine max

<223> Clone ID: 700957589H1

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ctcgtgattg ggatgctggg catggcggct aatgttcctt tgggtatatg gcgagaacat 180  
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<210> 19088

<211> 229

<212> DNA

<213> Glycine max

<223> Clone ID: 700957590H1

<400> 19088







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<210> 19095  
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 gcttgctagc ggtggccatg acaaaaaggg tggttttatgg ttcacagatt ctctaaaaca 180  
 gaaagccact cttgaagagc atgcatatct aatcactgat gtccgtttca gtccaagcat 240  
 gcctcgtctt gcaacatctt catatga 267

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 <223> Clone ID: 700957502H1

<400> 19097

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<210> 19098

<211> 161

<212> DNA

<213> Glycine max

<223> Clone ID: 700957505H1

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<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700957507H1

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tgtcttctgc agctaaagag attactgtca gggaggctct gaactccgca ctcgatgagg 180  
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<400> 19100

0953113-032200



<212> DNA  
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 <223> Clone ID: 700957511H1  
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 aacagttggt tcccgtgaa aagttgcttc cccacagaac tgtaaagcaa acgggttagat 180  
 gcaccaacac aagcaccact aacgaaccat tgggtcagtt caatatataa cgaatccgat 240  
 actcttttca tctcaca 257

<210> 19105  
 <211> 141  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957515H1  
 <400> 19105  
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 gattcaagtt tctgacaacg t. 141

<210> 19106  
 <211> 176  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957523H1

<400> 19106

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 cactgctgac ttgcaaatgg tggatagggg aatcccgtat tttcctctag caaacagtcc 120  
 tttaaaatat ggccagtagc aaactaccaa atacgtacta cagatgaatt ccccaa 176

<210> 19107  
 <211> 166  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957524H1

<400> 19107

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 gtctcctact actgcttata atccacctga agattcttta agtcaagatg tgattgcgac 120  
 tgtagagaag agtatgaaaa aatatgctga caacctaata cggttt 166

<210> 19108  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957525H1

<400> 19108

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 tcgagccaac tactcgcccc tccaggcgcc ggagtttggg catcttacct ttaaaataca 120  
 tcgctgacat ggcggtgccg ccgtcggatg gttcacggaa acgtcccaag ctggatctca 180  
 gggaccgcga taacgtagtt caaaattgcg acgaatccac tggacacaag gtggtgacaa 240  
 aagaagccaa agtggaatc cacg 264

<210> 19109  
 <211> 253

002220"EFFE560

<212> DNA  
<213> Glycine max

<223> Clone ID: 700957526H1

<400> 19109

ctcgcaagca aaaagaaaga atcccaggcg aggagaaaga tggaggggaa ggagcaggat 60  
gtgtcgttgg gagcgaacaa gttccccgag agacagccga ttgggacggc ggcgagagc 120  
caagacgacg gcaaggacta ccaggagccg gcgccggcgc cgctgggtga cccgacggag 180  
tttacgtcat ggtcgtttta cagagcaggg atagcagagt ttgtggccac ttttctgttt 240  
ctctacatca ccg 253

<210> 19110  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957527H1

<400> 19110

ggaacatgct tagaaaactg ccaagcccac ccatattctc tcataacttt caaccatgaa 60  
ctgaacaaca acaacaacaa caacaggtcc tacgtacag acccacctcc aaagagatca 120  
tttttattac caattttccg atttcacaga gaaaattctt tgtgggcac tcttcaaaaa 180  
tgtcaagctt cccaagccg gtggcggaag gccgcacgtc cggcaaggca ccggtcaa 240  
ccaccttttc tca 253

<210> 19111  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957528H1

<400> 19111

ataaagggtg tggaataggg ttgggaggga tcaaaaccca caaactaca cggcactgag 60  
ttattagtaa ttgtgttggt ttgtgttgag cagagagtag gatcaagaaa ggataagaag 120  
atagagggaa tagggtagg gttagggtta gggtaggtt gaggatgccg aagaacaagg 180  
gaaaggagg taagaacagg aagaggggaa agaacgaggc ggacgacgag aagcgagagc 240







<210> 19118  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957541H1

<400> 19118

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 ttctagaatt gccattggaa attcttcgga gttgaaccaa tctgatgcac ttaaggctgc 120  
 actagctgag ttcattctcaa tgctcatctt tgtttttgcc ggggaaggct ctggaatggc 180  
 ttataataag ctgacaaaca atggctcagc aacaccagca gggtagtgag cagcatcact 240  
 gtc 243

<210> 19119  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957542H1

<400> 19119

atggaacctt actattatctt aagaatgaaa ctacgtgat gcttccacta gagaaaaaaa 60  
 gtcattgtagg tgggggttgag tgaataatag ttaataatctt aaaattcaca tcataatgga 120  
 accttagcat cgaaggacaa attatagaat gttgtgtgtg tataaattcc accaaagcca 180  
 cccacc 187

<210> 19120  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957543H1

<400> 19120

catcacatta cattagattg gtggtaatgg cagcgctact acaagcagca gctactttca 60  
 tgcaaccac caagttgagc aggagcaaca ctttgagca aaagtctact cagtccattt 120  
 ccaaggcttt tggtttgga cctgttgag ctaaaaa 157

<210> 19121  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957450H1

<400> 19121

attgctcaca ggatctgttc accctacaag ggatgaaaat ggcaacttac tcttgactga 60  
 gtttggattg tgcaaataca aagatcatca aactttgtcc attcaagagt tcccgagaat 120  
 tctgctcctg gtcaactccc aagaacagtg gatgtcattg cagaagacga tcttgttgat 180  
 tcttgcaagc ctggagatcg agtggcaatt gtggggatat ataaggctct tgcagggaaa 240  
 agcaaaggca gtgt 254

<210> 19122  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957451H1

<400> 19122

cgtacaattt gtgggtctct taccaactag aacaaccaac caagcatggc tatactacta 60  
 tagaacaaca acttcacttc tcaaactgtc agaataatat ttcataccat cccaatccaa 120  
 ttattcaccc tcttcctatt tcaactccctc attctctc 158

<210> 19123  
 <211> 134  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957453H1

<400> 19123

aaaaatgcta acccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60  
 ggctagtggc actgctgcaa gtggaactcc aagaagcgca gtgccaagca ccatgtttca 120  
 acattcaaca gaag 134

<210> 19124  
 <211> 253

<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957456H1  
  
 <400> 19124  
  
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 gataaaaaacc cagatccaga ggcacacaag tacttcgttg agtacattgc aaagcttata 120  
 aagctcttac agatccaaca gctcgtgaaa attatgaaaa atatggccat cctgatggca 180  
 ggcagggatt ccaaattgggt atagctcttc ctcaattcct gctaaatatt gatggggcat 240  
 ctggtggaat act 253

<210> 19125  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957458H1  
  
 <400> 19125  
  
 gtagaacctt cactctgcta tccccatat tcctgtgttt cctttgaaaa aaaaagaaga 60  
 agaaaaaaca tgtctagggt ttttggttc ttctttgtgg gtctacgttg atgttggtcg 120  
 gtgtggcaaa tgctatggct aactcttcca acaaatttga tcaactcttc caaccaagtt 180  
 gggcttttga ccactttatt catgaaagg atcttctcaa actcaaactt gacaaatttt 240  
 ccggg 245

<210> 19126  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957459H1  
  
 <400> 19126  
  
 aatagaacaa ccactcacc cctctccgat ctaatggcca ccgtaatcga cggcaaagcc 60  
 gttgcgcaaa tcatccgatc tgaaatcgcc gacgaggtgc gcctctctct caaaaatacg 120  
 gcaagggtcc gggactagca gttgtgatag tagggaacag aaaggattca caaagctacg 180  
 tgggaatgaa gagaaaggca tgcgccgaat tgggaatcaa atccttcgat gtggaccttc 240

ccga

244

<210> 19127  
<211> 169  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957464H1

<400> 19127

accaaacatt ttttttccat gaactttgca tctacactat catcacatcc atggccacag 60  
ttgtgaagct ccacgttttc ccagaaagtt tgaaccaaca caaaacgagt tgctcaggag 120  
aggctttggc tcatgccctt cacctggggg gcttgggttt ggccataaa 169

<210> 19128  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957465H1

<400> 19128

tcgggtcgat gacaaaatac ttataaggaa taagtgatgg agagaaggag gcaggaattg 60  
catgtgcttg gtaacaaaaa ccaaacaaag ccttaagagt tcatttttgg gatgatgcgt 120  
ttctcggaga cagcatcaaa atccaaaact gttatttttt tttcgtgac tcttactttt 180  
ctgaacgcca cacagatcca atggctcgagc tgctactaat cacatgcac tcactacttt 240  
tcctcattc 249

<210> 19129  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957468H1

<400> 19129

acacacgata caacttggac tacctgcgac agttaagtt gctgcaaacc ttgtccggct 60  
tctcgcatat aacaataaga atttcttaca gaccgggtta attgttgtgg ttgggataaa 120  
tatgaagggtg gacaaattta tggagttcct ctgggtggaa caatagtaca gcaacctttt 180

gctatcggag gatctgggtc cagttacttg tatggtttct ttgaccaagc ctggaaagag 240  
ggaatgacca a 251

<210> 19130  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957470H1

<400> 19130

gaaaccctaa tttgttacac ctacaccttc ttctctcatt ttctcatcat caccaatcaa 60  
caacaacact gctcttttgc aaggagggcc tgactttgac aaaatctcca cttcctctcc 120  
attcgcatcc ttgctttcat caatgaaggc tcttcctccc tctcaagtgc attcatgaac 180  
gagccatggt catggggcat aagcattccc attagtttgt acgtgaaatt tgcacttgag 240  
atccacactc a 251

<210> 19131  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957471H1

<400> 19131

catgaatcca aaccgatctg tctgaaacaa aaaaaaagg aagatgcata tgtcgattcc 60  
agtggcaaat gttgcgttcc tctgaatgaa tactgacca caaaaacact accttggtgc 120  
caccctttt cctaccttct ccacctttca gggttcctga ataattaaag atgggactgg 180  
ctctgggttg tcttcaagtg gagcaatcaa cggtagctat caaagaagtg tttggaaaat 240  
ttgatgatgt g 251

<210> 19132  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957472H1

<400> 19132

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 ttgaatgtct ctgccgaaga taaaaccact ggccagaaaa ataagatact atcaccaatg 120  
 acaagggtag attgtcaaag gaagatattg agaagatggt tcaagaggct gagaagtaca 180  
 agtctgagga tgaagagcac aagaagaagg ttgaggccaa aaacgctttg gaaaactatg 240  
 catacaacat g 251

<210> 19133  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957474H1

<400> 19133

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 actcattcat tgttgtgcgt ctggttttct gcctgaaatg gagacatgaa ccagagacca 120  
 aaatatgatt gccttctttt tgatttagat gatactttgt atccactaag cactgggtctt 180  
 gcaaaagcat gtggccaaaa cattaaagac tatatggccg aaaagcttgg catagagaaa 240  
 agca 244

<210> 19134  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957475H1

<400> 19134

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 gcattagaga ggcttcttga aacaaataac tttccagagt ttatggtcgg gtgtgccag 120  
 caccttgtga aggttcttgt gttcttggtta ttattgagaa tcccgatatcc attaaaagca 180  
 ttgaatgtgc catcatagac aaggcttttg aggagggttg gatggtgcca cgacctctg 240  
 tccag 245

<210> 19135  
 <211> 245

<212> DNA  
 <213> Glycine max

<223> Clone ID: 700957476H1

<400> 19135

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 atgtcgagga gaaaggtcag agagccaaag gaagaaaacg tgctctgggc ccagctgtta 120  
 gagatggtga acatgtcttt ggcgtcgctc gcatctttgc ctcttcaat gataccttca 180  
 ttcatgtcac tgatttgtct gggagggaag cgcttgccg catcactggt ggaatgaagg 240  
 ttaag 245

<210> 19136  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957477H1

<400> 19136

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 gttagagaga gaaagagtaa taataataaa gtggaagaca aaaattagga gagtgaacaa 120  
 agaagaagaa gaagaagaag aagacgaaga agaattgaga agatggtggt tgaggaaact 180  
 gagctgaggc tgggactggg actatgtctc cctggaaatg gaaccacggc aacaa 235

<210> 19137  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957478H1

<400> 19137

gcaatagcta gctgtagaa atgaaccact actgtgaaag atgttgaatc atacgtacgt 60  
 gtgttctatc agagaagctg cttttgatct tgtgttacta cggagatgcc aaatgagtgg 120  
 ccgttgttct tgtttgagtt tgctttagta agaatccctt tttcagttac aa 172

<210> 19138  
 <211> 187

<212> DNA  
<213> Glycine max

<223> Clone ID: 700957479H1

<400> 19138

gaaattcaag aggaacggaa cagaaaagtt tagtacgaac agcatcgcaa catgtacaac 60  
gccaaacttcg agaaccagac cccggccatg aacacctaca aggccaattc gagggccatt 120  
acgcgcagtc agaagacttc gaacaaacaa taacctaaaa agctcgtcgc gcggttgctg 180  
ctgctac 187

<210> 19139  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957480H1

<400> 19139

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aatttgttgt tggtgcaacc aatttttgaa gaaaagatgg gggaacagca gcttccaatc 120  
ctgctttgca agtgtctgtt tcatttggtg gatttgagaa tgattccttg tcttgggaga 180  
aatggtctgc tttctcacca aacaagtact tggaagaagt tgagaagtgc gccactcctg 240  
gatcagttg 249

<210> 19140  
<211> 126  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957481H1

<400> 19140

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tgttcgaccg caacggcgac gggagaataa cgaagaagga gctgaagact cgctggagaa 120  
cctggg 126

<210> 19141  
<211> 250





<210> 19144  
 <211> 165  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957486H1

<400> 19144

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 cacaggaaga agaatttgca gtattatgag atttcagcga agagaactac aatttcgaga 120  
 agcctttcct ctatttgaac ttcttgcaag tttcttgccc aaata 165

<210> 19145  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957488H1

<400> 19145

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 agattttcct tgaccatggg gcaaaagcat ttagtgacgg tgttcgttta tgggcttta 120  
 catgttcctt tcttccatct ttctcctttg gaattctgag aattggtttg aagaagagac 180  
 ctctagatct tgatagtatt aatgctgcta gaaaggcaag agaaggtcta agatctgtaa 240  
 gaccaatg 248

<210> 19146  
 <211> 150  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957449H1

<400> 19146

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 tggacctatt gggctcatta tggcccctac aagggaacta gttcaacaga tcacagtgct 120  
 ataaagaaat ttgctaaggt actgggtctg 150

<210> 19147



<211> 258  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957407H1  
  
 <400> 19150  
  
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 acgaggaggc ggaggatcgc tccggcaacg aggatccgca cggaagagac gacaggatct 120  
 gagaagaagg aggcgcgagc tgcttcggct tcggattagg gatttggcga cgcgcacgag 180  
 gagcatgcgg aaccggatct tggattgggc cgagattctg atgggccttg aggacaattc 240  
 catcgagttc cgctcca 258

<210> 19151  
 <211> 120  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957409H1  
  
 <400> 19151  
  
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 gggagagaaa caaccatcgt ccaaaccacc accaaccatcg tacgtgctac gttgtacatg 120

<210> 19152  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957410H1  
  
 <400> 19152  
  
 cttgcacttt tgcacaagac tcttatgcc ttaacctoga attatatgta ttttaattaca 60  
 tgacctgcta gtacttttca ttttaactatg ttcttatccc tccccctcct cctccatgtt 120  
 gaaagcttgc taagctttca gcttgctcgg aaaggaaacc caaacttaca acccattcat 180  
 ttgtacactt ttttaagaaaa tgggtgcat taaatgtaaa aatgttttgt tatttgaaaa 240  
 tatttttttt ttaaa 255

<210> 19153

<211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957411H1

<400> 19153

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 tctgaaggct cattgccatt atcatgtcaa ggaggccagt aaatccttcg gtcggctagg 120  
 tgatggtgga agtataccat ttgttgcatt aatccagtcc aaatctcaaa actctcccct 180  
 actatctatt gggcttgtca ttgtgggtgc aatcctcctg attggttatt gttacagcaa 240  
 ttcaggtgga g 251

<210> 19154  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957413H1

<400> 19154

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 taaagtgatt gaggcacctc tggatcatcaa tggcaaaca gttgagatta gcggacgata 120  
 ccgaggggag ctgttggctc taaggatttt aggacaaaaga aaatttttgt aggtggaatt 180  
 ccttcaaagt tgactgaaga tgaatttaga gacttcttta cacgctacgg cgaagttaaa 240  
 gatcaccaaa ta 252

<210> 19155  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957414H1

<400> 19155

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 aattgcaggc actatggagc tcaacctga taggctgggt gagctcaaag ctttcatgac 120  
 acaaaagctg gtgtgaaagg ccttgttgat gaaggggtcg caaagatccc aagattattt 180

catcatccac ctgatgaatt tgtcatggct tcaaagttag gcgacacaga atacactata 240  
cctgttatag a 251

<210> 19156  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957415H1

<400> 19156

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gggactcttg tttcttggtg tattaggtgc tgcttgggca tgtgattcaa ggaactgact 120  
aactctggta cttccgaact aagcataaag ccgatgtgt gtgcactttg tgaggaatat 180  
attaccaagg cacttgatta tctacatgaa aacaagaccg agacagagat cattaatatc 240  
ctgcacaaca cttgcc 256

<210> 19157  
<211> 255  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700957416H1

<400> 19157

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tgaacaaaaa aaataaaaat tattcctgtt ttagtgcttc tttcttatcc atgcgagtct 120  
gcttcgggac gctaacacat ccctcctcaa acgttctctc ttccactccg acaactcctc 180  
anacttttgc tttaaaccgg gagtggtggg cacgtctcaa gttttaagct tttcaactcg 240  
taaaaggagg tctaa 255

<210> 19158  
<211> 173  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957418H1

<400> 19158

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 tgtccaccat gagtttacct tcactgttca ggatggaata gatgccattg agatgttatc 120  
 taccatgttg aaacatatga tgtgactaca attagagcta gcacacccat gtt 173

<210> 19159  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957420H1  
 <400> 19159

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 tattgttacc tatatacatc aagcaattta tgagttcgct ggaaatcatg gacagctgca 120  
 accaagcaca gtgaggggttc tgaaagacta ggagaagctg gtcttgcaact gcactatgct 180  
 aacatcatca atcagataaa tatggttgca tctcgcccaa ctgctcttcc tccaaacacc 240  
 agaggccgcc tgtatca 257

<210> 19160  
 <211> 153  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957421H1  
 <400> 19160

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<210> 19161  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957422H1  
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 atatgctgtt ggccagctca aggaatttga gggcaagaag cttgtctctg ccaccaagga 180  
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<210> 19162  
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 <213> Glycine max

<223> Clone ID: 700957423H1

<400> 19162

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 attcgctctc aaaatcgtgt cattgtagag agtaaaaacc tggtaaagaa gcatataaag 180  
 caagggaag gtcataaggg gggcatcttt acagtgaag cccactgca tgcctccaat 240  
 gtgcaagttc ttgacc 256

<210> 19163  
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 <213> Glycine max

<223> Clone ID: 700957424H1

<400> 19163

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 ttctcggttc caactcaagg ccagcggtcg cgctccgccg cttgcggtgg ccggcggtact 180  
 cctccgcctc cgcggtggtg gcgagcgag agaccagga ggtgaaggac tacgccgatt 240  
 accgccgctc cctgtacgg 259

<210> 19164  
 <211> 252  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: 700957425H1

<400> 19164

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ctacttgggc ctttgatcac atcaaatacc tcaatgggtg ttctgagatt cagcttcac 180  
ttgataagta cactgggtact ggcttccaat ccaaaggatc ctacctgttt ggtcacttca 240  
gcatgtacat aa 252

<210> 19165

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700957426H1

<400> 19165

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ttcaatttca tttttaaggc tgtgtttgaa agtgtgttca atgggtactc cggaattccc 180  
agatctggga aagcactgtg ctgtctcgga ttgcaagctc atcgatttct tgcccttcac 240  
ctgcgattgc tg 252

<210> 19166

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957429H1

<400> 19166

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gaggaagaag aagggaggac caattctcat acctggattt tgtcttccaa aagcacttca 180  
gcctatattg ccaatttttc tccaagggtc cataagtggg tctgctgaat tgatgctaag 240  
gctgctctg 249



aatgtggtgc tccatccccg aaagggtttca gctgcatgcg gccatggttg cctgcagtt 180  
 tggctatgcc ggcttccatg ttgtctcaag agctgccctt aacatgggca ttagcaaact 240  
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<210> 19170  
 <211> 238  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957434H1  
 <400> 19170

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 gagaagaaga agaagaagaa gatggagaag tatcagatct ggagcaggag atagcggttg 120  
 cagcgtttgc gtttgctctg ctgttccaat cggcctcagc agacgacgtc gttgtgctct 180  
 ctgaagataa cttcgagaag gaagttggtc aggacagagg actccccgtg aagtccaa 238

<210> 19171  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957437H1  
 <400> 19171

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 ggaagtacag ggacagtggc agctcctcc 89

<210> 19172  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957440H1  
 <400> 19172

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 ttggtttgag aaaaggggat atgtaccaa cctggaagta ttatagcatt atttcaccac 120  
 ttcagtatgt gatctatctt ttcagtggcg catttaataa taaacatatt gatgttatga 180



<400> 19175  
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 caaagtgggc cttttacagg gctctcattg ctgaattcat tgccactttg ctcttctctt 240  
 acattactgt gtcacagt 259

<210> 19176  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957446H1

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 aaatatttgc ttaaagagtc gtcggagtca cgtttgggaa ccgtattaca gctgaaggaa 180  
 ttggatttgt ggtggtcgga gataaaggat ataggatttg aacgagaacc agttcc 236

<210> 19177  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957359H1

<400> 19177  
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 cctatgattg ctaggggagt gatgctgggt cctgaccagc ccgtgaccc cccatgctt 180  
 gacattcctc cagcagcaga gctcatgaat ggggttaaaa tggaattggt ggatgctgca 240  
 ttccctcttc tt 252

<210> 19178  
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<213> Glycine max

<223> Clone ID: 700957361H1

<400> 19178

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gaccgagcag agcttcgtct tggccctcga ttttgccta aagtactctc agtcacaaca 120  
gacaccgtcg tcgtcgtcgt cgatcatcaat ggcaccgaag cagaccaagg ctgagaagaa 180  
gatcgcttac gatgcgaact gtgcgaccta atggaggagt acggccagat cctcgttgtg 240  
aactccgata a 251

<210> 19179

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700957364H1

<400> 19179

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cttgtagcaa tggcgagcgc tcccactcca cggaagagt tcgtgtacat ggcgaactgg 120  
cggacaggcc gagcgctacg aggagatggt ggagtcatg gagaaggctc ccgcctccgc 180  
cgagagcgag gagctgaccg tggaggagcg taacctctc tccgtcgctt acaagaacgt 240  
gatcggcgct cg 252

<210> 19180

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700957365H1

<400> 19180

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actctcccca agaagatgct gaagctctca gaaaggcttt tgaaggatgg ggaactgatg 120  
agaacactgt catagtaatt ttgggtcata gaactgtgta tcagaggcag caaatcagaa 180  
gagtttatga ggaaatttac caggaggatc ttgtgaagcg cctagagtct gagatcaaag 240



tcagccaaga aatcaagagg cttggttaagg tccaagcaga tggttcttac aaggtaacat 120  
 ttggaacact atttaacgat gatgaatgcg caaatatatt tgaagcactt gttggaccac 180  
 taagagcagc gaaaaagcgt aaagtactga catacgaggg tgagctactg ctgcaaggag 240  
 tccat 245

<210> 19184  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957374H1

<400> 19184

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 accctttgtt cgagaagcgt ccgaagcagt tcgggatcgg aggcgcgctg ccgccgaagc 180  
 gggacctgac gcgcttcgtg aagtggccga agaacgtcca aatccaacgc aagaagcgca 240  
 tcctcaagca gagg 254

<210> 19185  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957375H1

<400> 19185

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 tttcaatcta agcttctgaa caattatatt gataaaatgt ttgtgatttg cttggatcgg 180  
 tattcctgca tggtctgtga gcccatattt tatacttttg atgttgcggg cttcttttcc 240  
 ctgtgcaata 250

<210> 19186  
 <211> 247  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: 700957376H1

<400> 19186

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ttcctcagtt gtgcctatgt cacaagacac aacaaccctt gtgcctgcaa tcataacttt  120
tggtgactca gccgtggatg tagggaataa tgactatctt cccacccttt tcaaggctga  180
ttaccctcct tatgggaggg actttgctaa ccaccaacct actgggaggt tttgcaatgg  240
caaatta                                           247

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<210> 19187

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957378H1

<400> 19187

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agaggaaaag aagccatgct tctttcacca tgtttgcaat gcttggtgga ttgctctctc  120
agagccttgt cattcctgta atatccacca ctgttgcaaga tcagaagaac tactacaccc  180
cagatccaca tgctggaagt cccccacag gctcacacaa tagtagtctc ccatctcatg  240
gccatggga                                           249

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<210> 19188

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700957381H1

<400> 19188

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agaaaatggt gtggcattgg tttctcgtac cggtagggag ttgcaacggt atagaaaagg  180
tcgtcgccaa gttgtgggat gcataccgta cagatttaag attggggaga agacttgctt  240
ggatgtttct gatga                                           255

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<210> 19189  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957382H1

<400> 19189

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 tccagtgccg gtttttagctt tgactaaagc atccatcccc tcaaggcaaa taggtaggct 180  
 agcctcttgt atgcgggtca tttgaacata tgttctaatt ctctgcccta ccagagaact 240  
 tgctagtcaa attg 254

<210> 19190  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957384H1

<400> 19190

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 ggtcaatatt gcagtgatgg ttggtggatt ccctagaaaa gaaggatgg agaggaagga 180  
 tgtgatgact aagaacgtct ccatttataa gtcccaggct tctgcccttg aaaagcatgc 240  
 tgctgccaac tgca 254

<210> 19191  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957385H1

<400> 19191

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agcagcacc agtaccacgc cctctgcgtc tcatccctct ccgtctacgc ctccagcatc 180  
 caacaggacc ctcaccaact gggtcagaca gcactctccc tctccctgaa ccgcacccaa 240  
 gccacaaaa ccttcgtg 258

<210> 19192  
 <211> 121  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957386H1  
 <400> 19192

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<210> 19193  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957387H1  
 <400> 19193

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 gctcatgcc a ctttctatgg agggagtgat gcactctggga caatgggtgg ggcattgtggg 180  
 tatgggaatc tctacagcca agggatatgga acaaacactg ctgctctaag cactgcactg 240  
 ttcaacaatg g 251

<210> 19194  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957388H1  
 <400> 19194

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 caagtttcca tgetgaccct cagaagtatt ttctgaatgc attgcctagc ttgctgcaag 180  
 ccacaaagtt catggctgtg gttgacacac tctccactca ctcacctgat gaggagtact 240  
 tgggggagag gc 252

<210> 19195  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957389H1  
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 ggagcaagga gtcgtagaag gaggtggcat gaataagata cctcgggatt caagagtga 180  
 ggagataaga caaggtgatg cacaaattca ggttcaggct cctcagcaac cccaaaagt 240  
 tcctcgatgc ga 252

<210> 19196  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957390H1  
 <400> 19196

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 ttcttttggc gtgttggcca cccactgaac acatttgcac tcacacatag accgcgagag 180  
 aggccattgg ttggtttcag agatgggaag catgcacata gaaaccccag aaacttttgc 240  
 tgatggtag 249

<210> 19197  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957392H1

<400> 19197

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ttttattgtg attattttctc tccaaataaa ccatacaagc ctagcctttg gactgagtct 180  
tggagtggct ggtttacaga atttggtggt ccaattttatc agcgaccagt tcaagatcta 240  
gcatt 245

<210> 19198

<211> 248

<212> DNA

<213> Glycine max

<223> Clone ID: 700957393H1

<400> 19198

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ctggatttct cgaaccatga agtgttttcg agtccgaaca tgggggagct tccgagcagc 180  
ggttcaatgg acagtttctt cgacgagctt ctcaaggaca cgcacgcgtg cacccacacc 240  
cacacgtg 248

<210> 19199.

<211> 192

<212> DNA

<213> Glycine max

<223> Clone ID: 700957402H1

<400> 19199

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tggacgaagc gagagtgcac tggatgctga gtctgagaag agtgtacaag aggctcttga 180  
tcgtgtcatg gt 192

<210> 19200

<211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957357H1

<400> 19200

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 tatgcgaaca acatggttgt ccttgctgca tccattgtga gcaaactctgg gaaagtgtc 180  
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 cccaagttgg ta 252

<210> 19201  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957404H1

<400> 19201

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 tctgcaagtt tggttgcacc ttcatttgat ctaactgggc ttggagttcc ggaggatgga 180  
 cagaaaatga ttagtgacct tatgacaatc tatgatacga atgttgtagg aaacaagact 240  
 taagttcctc caac 254

<210> 19202  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957405H1

<400> 19202

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 aaaagtaaag ttctggaaag aagatgctga gggagatgct ccacctgttt ttaatataga 180

cggtgtgaac tacttccacg taaaggttgc tgcattgcta tttgttgcta ctactagagt 240  
 caatgtctcc ccttctctt 259

<210> 19203  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957320H1

<400> 19203

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 accaaagaat caagcttcgt caaagtgtct gtcacacaca gtctttaatt tctggaagcg 180  
 cttctcactt gtcacaata agaatttccc tcaaatttca atttttcatt tgaaaataat 240  
 aaaaccctaa aagaggggtt g 261

<210> 19204  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957322H1

<400> 19204

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 cttctggtgt gacaatatca ttgtgttggg caaagcattt tcgaagaaat tacgtggatt 180  
 taggaagatt ctgattattc ttctacatct acaattatta aggtgaagat aatttcggct 240  
 ctttacaagt aaagaatga 259

<210> 19205  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957324H1

<400> 19205

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 tagagaaacg attgctgggtg ttaatccaaa tgtcattaag attcttgagg agttcccacc 180  
 acgtagcaag ctagattctc aagcctacgg tgatcatacc tctataataa caaaacaaca 240  
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<210> 19206  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957325H1

<400> 19206

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 tctccatggg aactgggaag tacaccatgg gcaatgattt gtgggatgga ccagacagag 180  
 tgaaatactt gggacccttc tcagctcaga ccccttcata cttgaaagga gaattccctg 240  
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<210> 19207  
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 <213> Glycine max

<223> Clone ID: 700957326H1

<400> 19207

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 aaccattag ggttttccac gatataatag aaactgaaag cctcttacgg ttgcagcaac 180  
 agcagcattc actgaaagca ctcagtaggg tttgcggttt cagagtttgt gacgcacgca 240  
 tccatggcca ccaccac 257

<210> 19208  
 <211> 256  
 <212> DNA



<213> Glycine max

<223> Clone ID: 700957327H1

<400> 19208

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tgtggaagag atacaagtag accctcccaa agccaccgaa gttcgagttt agatgctttg 180  
tgccagtata tgctccacag acatctctac tccgaaaagg attcccacat accaattttc 240  
ctatagcact tggaca 256

<210> 19209

<211> 251

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700957328H1

<400> 19209

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gaccgaggac ttcgacctcg aatcaggaga aaccctctac ccagggtga gcgtcggcga 120  
gaaccagctc cgatgggggtt tcatccgcaa ggtctacggc atcctctccg cgcagatcgt 180  
cctccgcanc ctgctccccg tcancancgt tttctatact ccaatcaatg acctcctcaa 240  
gggcaattcc a 251

<210> 19210

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: 700957329H1

<400> 19210

gaaaccggta aagggttggtg gcttgattcg tcatcagagt gggtttttga aaaattgccg 60  
ccacctctga agcctaaaca aagtgtagat actgaaagga cactggtttc ataagcaatg 120  
gacagtgaag tagaaaatgg agtcattctc tttgttacac ttccatataa ctttgcccgt 180  
gagaagttgg ctgctgagta tatttgtaga gaactacgtg aggcagatga aacaaatttg 240

cttcaggaag aacg

254

<210> 19211  
 <211> 101  
 <212> DNA  
 <213> Glycine max

&lt;223&gt; Clone ID: 700957330H1

&lt;400&gt; 19211

gaagtgaggg cctccgtcac actcacagtc agcatcgaag atcggaggcg aggcattgagt 60

tgtgtgctaa ctactactct tcaaaccaaa cacgcatcgc c 101

<210> 19212  
 <211> 255  
 <212> DNA  
 <213> Glycine max

&lt;223&gt; Clone ID: 700957331H1

&lt;400&gt; 19212

aaaatacttg gtgagcttat gcattgtaat ttgaagcatg gcaggttgct caaataatgc 60

gaccactatt ttgagtgtga actggatatg aagcttgccct taggttttta aaacactcat 120

acctagacga aatcccttga ttcccaaaat atagaaactt tggatacatg tattactgtc 180

tcttgcaggg tagctaataa cattctagaa tctctaacct tggatatcct catcactaca 240

ccaatgatac cactt 255

<210> 19213  
 <211> 256  
 <212> DNA  
 <213> Glycine max

&lt;223&gt; Clone ID: 700957332H1

&lt;400&gt; 19213

gtaacatact aacatgttaa tgcagatatt tgtcagttgt accatctttt agtttatgaa 60

ctcgagcagg ttgtccttgc atttggtgct gaaagtgata gaagtcttgg tattccaggg 120

gagaacttga aagggtatata ttcagctaga gagtttggtt ggtggtataa tgggcaccca 180

tatggacaaa atcttgagcc agacctaaag agcactgata cagctgtaat ccttggccag 240

ggaaatgttg ctttag

256

<210> 19214  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957333H1  
 <400> 19214

cgctttgaga aatcagacgg cggagagaat gggtttatca ctcttacggt gggttctgcc 60  
 gctgactctg ttgctcacct gcgccctagg tttccaatcg gaagaggctt ctcctcgacg 120  
 acgaagagtt cggcatcgaa ggaggacgaa ctcctttga ttccgattcg catccacctt 180  
 ccaccgcctc cacctcgagg aagaggcttt ccgactcctc ctccgattcc aagatccagt 240  
 tccctctcca acacgctttc gg 262

<210> 19215  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957337H1  
 <400> 19215

ctcaatggca tcatcatttg tgggtacttt attaccaac cacttcacac aaaccaaaca 60  
 ctcagctgtt cctgcaagta gatcaggtgc tccaagaagg aggagagtgc acttagcaac 120  
 aacaagagca gagaccatga ctactgtcat agaaaaactg ggcattaaga ttgagaggaa 180  
 ccctcctgag tccaagctca ctcaactggg tgtaggcaa tggcccaa at ggggttgccc 240  
 tccaagtaag ttcccatgg 259

<210> 19216  
 <211> 88  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957338H1  
 <400> 19216

caacgaaacg caacacaaca catcgtagta cggcattccg ttcattgttt ctttcaactc 60

aactcaactc tgtctcgccc accacaca

88

<210> 19217  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957340H1

<400> 19217

tgcggatctt cacagcactt gctttctctc agaagctgtc tggctctcca ccagaaactg 60  
tggtccaacc acttcttaaa gataaccttg tggccaaagg gctagtcttg tcatttatga 120  
ctgacttctt taaggagtat ctgattgaca acagccttga tgatcttatt tcaattctaa 180  
aacggggaaa agtagaggag gatcttttgg acattttccc ccctacaaaa agatccattg 240  
aagctttctc tgagcatt 258

<210> 19218  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957341H1

<400> 19218

gtttttcatt tcacgtgca ttcaatggcc accacagcag ctctatccgg aaccatgggtg 60  
agcacctcct tcacgaggag gcaacctatg accaccacaa gcctaaagac attccccaac 120  
gttggtgaag ctcttttttgg tctgaaaagt ggacgaggtg gtcgtgtcac ttgcatggcc 180  
tcgtacaagg tgaagctcat aaccccagaa ggagaagtgg agtttgaatg cccagatgat 240  
gttttcattg ttgacaa 257

<210> 19219  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957342H1

<400> 19219

gaattatcaa aggtgaaacg aagaagccct aactacgcac gcattcgtga gataactcaa 60

tattcgtcgc tcatggcact ctcttctcgt ctcttttcca aatccaaatt gatctatggc 120  
 agtcaaatac ttctacaaaa ggagcatgct attccagttc gtcactttgc taaagagtct 180  
 gccctcctg cccttaaggg agacgagatg ctgaagaaca tttttgtgga ggtgaagaac 240  
 aaatttgaga ccgcc 255

<210> 19220  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957343H1  
 <400> 19220

cgttcactct tcttccatcc tttcctctct ctctcaccct ctgcatttcc caagcagagc 60  
 tgatattaga agatggcaga cgctgaggat attcaacccc ttgtttgcga caatggaact 120  
 ggaatggtga aggcaggatt tgcaggagac gatgccccac gtgcagtgtt tcttagcatt 180  
 gttggtcgtc ctcgtcacac tgggtgtgatg gttggtatgg gccagaaaga tgcatatgtt 240  
 ggtgatgagg ca 252

<210> 19221  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957345H1  
 <400> 19221

gtccctaadc ctcaagattc actgtggatg atgaatttga ggactgggga atcaatggat 60  
 tctggatctt atctggagcg tccaggggag ccggattgtt cttattacat gagaacaggc 120  
 cttttagat ttggtgcaac gtgtcgattt aatcatcctc ctaacaggaa gcttgctatt 180  
 gcctctgcaa ggatgatatg cgagttccca gaaagaatag ggcaaccaga atgccagtac 240  
 tatctgaa 248

<210> 19222  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957346H1

<400> 19222

ggcaatagtg caattggctg cgttgcaggt ttttgttatt tttttgagtg gtggtgctga 60  
 ttacataccg ccttcaaggt tggatgggtt cgtctaccaa aatgggtact tagatttgga 120  
 tactgttttg atagaagcgt tttatgatcc ggtgtgcccc tacagcaggg attcatggcc. 180  
 tccactcaaa caagctctcc atcactattc ttctcgggtt tcgttctctc ttcatctcct 240  
 ccctttacct tacc 254

<210> 19223

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: 700957347H1

<400> 19223

ttggaatcca aaaatgagag taatcatcag cattcacata ggtcaggccg ggatccaggt 60  
 tggcaactcc tgctgggaac tctactgcct ggaacatggc atccagcccc atggcatgat 120  
 gccaaagtac tctccttcg gtgtagcccc cgacgccttc aacaccttct tcagctcgac 180  
 cggatccggc aagcacgtcc ctgcgcgcgt ctctgctgat ctgcagcccc ccgtcatcga 240  
 cgaattccgt tgtg 254

<210> 19224

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700957349H1

<400> 19224

cgggttttga agagaaagag aaaagaggcg caagatgagt ggtagggttt ctgggaaggt 60  
 gaagtgggtc aacgatcaga aggggttttg attcataacc cctgacgatg gcagcgagga 120  
 actcttcgtt caccaatctc agatcaaate tgacgggttc cgaagcctag ctgaaggaga 180  
 gtccgttgag ttcgctattg aatctgaate tgacggacgc gccaaaggctg ttgatgtcac 240  
 tggccccgac ggcgcc 256

<210> 19225  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957350H1

<400> 19225

tggagggtga gctaaaccca gatgggacca gagtaaatca atggagactt gtcagcatcc 60  
aacaagtaga agagggttaaa tgcttagcaa gaattatccc aatttgggca gcagggattc 120  
ttagtctcat ttccatgact caacaaggaa catttactgt gtcacaagca atgaaaatgt 180  
tccgtggaac aacccaagct tgtttcacag ctcagcaaca atggcttcta tcccatgcat 240  
caccaccac catca 255

<210> 19226  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957317H1

<400> 19226

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ctcgtcggag actttctccg gctgccctcc gaaactgata acgacgacaa cttcaagggc 120  
acccggtggg ccgtcctcct cgccgggttc aatgggttact ggaattacag acatcaggct 180  
gatgtttgtc acgcctatca aatattgagg aaagggtggtc tgaaagaaga aaatattatt 240  
gtttttatgt atga 254

<210> 19227  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957351H1

<400> 19227

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gttgctggga aggttttcag aattggacat cttggcaact tgaatgagtt gcaactgttg 120

ggatgtctag ctggtgtgga gatgatactg aaagatgtgg gctatcctgt aaagcttgga 180  
 agtggagttg ctgctgccag tgcataacta caggacacta ttcctatgat cccttccagg 240  
 atttgagtca caag 254

<210> 19228  
 <211> 104  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957354H1  
 <400> 19228

tacatttatt tgttttacat atctccttgt tgtgacctgc atagttcaca tgaattttaa 60  
 agttacaaat atatagatgt cattgtaatc ttagtccaca caac 104

<210> 19229  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957356H1  
 <400> 19229

aaaatgcttg ttcgcgaccc tagaaggcgg ctgactgcac atcaagtatt atgtcatcct 60  
 tggattcaag ttgatggtgt agctcctgac aaaccacttg attctgctgt attaagtcgc 120  
 ttaaagcaat tttctgctat gaacaagctc aagaaaatgg cccttataat tatcgagag 180  
 agcttatctg aagaagaaat agctggctta aaagaaatgt tcaagatgat agatgcagac 240  
 aacagtggtc aaatc 255

<210> 19230  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957261H1  
 <400> 19230

tccagcacag gttgagatcc taaatgtgaa cagagacaca atctacagcg tagttggaga 60  
 gagggaccct gcgaacgtga attcatgggt gtctaggagg ggcaatttcc atcctgtagt 120



gaatcagttg gagcagcagc ttcgatggcg tgtgcaactg ggaaaaggat agtggcagtg 180  
gagttcgcaa gcttttgaaa cccagtggt tattgcgag actttgcaat gggaagctgc 240  
aatgc 245

<210> 19231  
<211> 242  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957262H1  
  
<400> 19231

taactagaaa cagtgtgatg aaaatgaagg tccttacttt cttcgttgct acaattttgc 60  
tagcatggca atgccatgcg tacgatatgt tccctctccg aatgaacact ggctatgggtg 120  
cccgactccg gaggtgaaat gcgcaagttg gaggcttgct gtggaagcac acaacatctt 180  
tggtttgag accattcctg aagagtgcgt tgaagctcca aaggaataca tccatggcga 240  
ac 242

<210> 19232  
<211> 244  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957263H1  
  
<400> 19232

caaaagagag aaaacgggat ggatactcat cataggtcat agttggtggc taattgataa 60  
gaagcctaca tgtgcttcta tatgttatgt tgagatatgg cttgccattt ccgtaatttg 120  
atcggtaatc atgggtcattt ctttagcata gagttgataa atatcatcaa gacagaacta 180  
gtttagtgtt ttacgagtaa gttaagataa gatgaagaag atgggtggttg caatgatgct 240  
tata 244

<210> 19233  
<211> 247  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957264H1





aactcccggg agttttctac gttggaagca ttctaccta tcctaacggg ggcaataatg 180

cctatctccc aacttctgtc atgggggcta atttccatga attcgtggag attgtgttc 239

<210> 19240  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957279H1

<400> 19240

gatagcctca actcaagtaa gggttttctc tttgagaaaa tcgtatctta caccttttgg 60

tgagcacttg gcgtgagaga agagaaatta agagagatac tcaaattaga ttcaagagag 120

atgccatcaa ccatgaaact tgggctttca ttttcggtct tctaggcaac gtgatctcct 180

ttatggtgtt cctacgtcc attaccaact ttttaccaaa tctacaagag aaaatctacg 240

gatggg 246

<210> 19241  
<211> 241  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957283H1

<400> 19241

cctgttcttg ctgatggtaa aactgttggt gagattgtga tgcggggtaa ttctgtgatg 60

aaaggctact taaagaaccc taaagctaac gaggagacct ttgcaaattgg atggtttcat 120

ccggggatct tgctgtgaag catccagatg ggtatataga aattaaagac agatcaaagg 180

acatcataat ctctggtgct gaaaacatca gcagtgtaga gatagagaat actctttact 240

c 241

<210> 19242  
<211> 79  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957284H1

<400> 19242





cgggaaacggc ttccagaaac tcacaagctt ttcaaaaaga gtttcaaagt gaaggaaaaa 120  
 agtgcccttt gattcttggc caccacaacg ccaagacaaa caacaaacaa agcaaaacac 180  
 acacacacac acaagcaaac tagaggagcc accgcaacat gttttctgta accgaatgct 240  
 ataattcaag ggagttgggtg gtggt 265

<210> 19249  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957302H1

<400> 19249

aactgcaact acaacaacat tcattcattc acagctgtca cgccgtgaac ggaaaatggc 60  
 aacggcgaga cgcagtttcc cgcctatcac cgaatgcaac ggaacgacac cgtgcgagtc 120  
 tgtggccgcc gacctcgacg gtacgtcct catctcccggt agctcgttcc cgtacttcat 180  
 gctcgtcgcc gtccaagccg gcagcctcct ccgcggcctc atcctcctcc tctcccttcc 240  
 gtctgcatc atcgctacc tc 262

<210> 19250  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957303H1

<400> 19250

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 tgagttccgt tggatggcga cgagcaccac cagcagcggg ggcggcggca ccggcaccca 120  
 aacattcaag ccgtaccgtc acctgaaaac cctaaaagac cacgagaacg cggatatcgtg 180  
 cgtgaagtgc tcgaacgacg gaaccctcct agcctcggcc tccctggaca aaacccta 240  
 catatggtcc tccgccaccc tca 263

<210> 19251  
 <211> 261  
 <212> DNA  
 <213> Glycine max





<210> 19254  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957309H1

<400> 19254

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taaacctctt ttccccaag agaagaaaac ataataagata tctcattctc atcttcatct 120  
gcatctgccc atgtttcttg tttctgtctg caattttcaa ttccaactct ctctcacatg 180  
caattctcca tccaacaaaa gtttctcatc atttctgttt ccataagca attaattaaa 240  
atactgaatt tgggtataatt tct 263

<210> 19255  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957311H1

<400> 19255

gaaaaactga agcaaaagaa attagtggcg ttattggaga agttagttag caaagaatgg 60  
ccaacagcta agctttatct ctatggatca tgtgctaatt cgtttggtgt ttctaaaagt 120  
gacattgatg tttgccttgc tattgaggaa gcagacatgg aaaaatctaa gattataatg 180  
agattggcgg atattttgca atcagataat ctgcagaatg tgcaggcatt gacgcgtgca 240  
cgtgttccca tagtaaa 257

<210> 19256  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957312H1

<400> 19256

cgaccagggc cttacgcgtg ccgagatgct cgctcttccc accggtccca aggagcgttc 60  
cgccgatgaa atgccgttca accgccttgg cggcggtttc tctcctatg accgctccgg 120

cggtcgctcg cgcgaccgag acggcggcaa caacgaaggt tcgtggggcg gaggaggcag 180  
aagatcctac ggcggattcg acgaggagcg caggggtccg aatcctaggg tttcggaact 240  
cgatcagccg tccagg 256

<210> 19257  
<211> 257  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957314H1  
<400> 19257

ctatgattga cgatgacgga gatgaagatg ctgattatgc ttttgattac aatgatgatg 60  
atatctatga agatgattat tcaagtatgc aggaccaatt tgacaatgtg gatttgcccc 120  
ctgggggtgga ggcattcactg ccttggttga aggacatttc ttctagtga tgcaagcagg 180  
ctattgcttt ttcccgtaga gaatctagtt ccaaggcaaa agtggatgaa actgatgata 240  
tagtcatgca aaagttt 257

<210> 19258  
<211> 249  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957203H1  
<400> 19258

gacaaatgca aggtgttggt caacattgag caacagagcc cggatatcgc ccagggtgtg 60  
cacggccact tcaccaagcg cccagaggag gttggtgctg gtgaccaggg tcacatgtcc 120  
aggtatgcac cgatgacacc cccgagtaca tgcccctcag ccatgtcctt gcaaccaaac 180  
ttggtgctcg cctcacagag gttagggaga attggcacct gtgcttggtt gaggcaagat 240  
ggtaagaca 249

<210> 19259  
<211> 247  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957205H1

<400> 19259

ctctgaatag gaaaggaagc aatactctcg ttacacatca tccttttctt cttctttcac 60  
 tgcttcgatg ctctgatatc tctctctcat tcagggtagt gagctggttg ttcattggctc 120  
 tttctgaaa catccacacc tgttcaacca tattaggact tttgtgaatg tgaaggtgaa 180  
 atgggtccaa gacccatata ttgataatgc agtcctgaaa gagaaagatc tcaaacagac 240  
 aatttcc 247

<210> 19260

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957206H1

<400> 19260

atcaccattg tgtcttcttc actccacctt cttcattccc acccaattgt ctccccatta 60  
 aacaataaca tgaataatat taggaatgga tacagagaag caaaatcatt ctgctatttc 120  
 caccceaaca ggtacttggt ggggtgtgtc ccctgtgctt gaatgagagg ctctcatac 180  
 tgtttgcaaa acaagggtgc caccacaacc gttcttcttc ttcattcata tcttcacaca 240  
 ggcttcaaa 249

<210> 19261

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957207H1

<400> 19261

gtgatcaggg aaatgacgtg gagtcaacta atatactgga attcattgac caatgtacaa 60  
 acacaatgca gctaaagcaa atacatgtc acatgctccg cacatcccgc ttttgtgatc 120  
 catatactcc agcaaattgc tgactgctta tgctatctca tcatgctctt gcctcatata 180  
 tgctaaaaat gtgtttaatc aaatcccgc accaaatctc tattgttgga acacccttat 240  
 tcgtggata 249

<210> 19262  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957208H1

<400> 19262

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 atcactggtg ccttgtcaac accatactac aaagacattg tggatgaatgc aacattgatg 120  
 tctgagggct aacgggttcag gttgggtccag caaatgctga tggatggaaat gccaatgcaa 180  
 ttatgaatgg catagagggtc ttgaagatga gcaactctgt caacagtttg gatggggaat 240  
 ttgggtgttg 249

<210> 19263  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957210H1

<400> 19263

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 tcaaaaaggc cctttcacgg gtgaagtcca tgggttcagta tccagaggca cgggctcaat 120  
 accggcgggg ctaaattgtag ttgaggactt ccgtcaaacc aaggaggagta atttgaattt 180  
 gataaattcg gaagagacag ttgatgggtg ggaggatttg attgatattg acatgctttt 240  
 agatgatgaa 250

<210> 19264  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957211H1

<400> 19264

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 agcagagaag cgaagatgaa gaggcgacga agcagttgag tttctttgag tcggcgatgg 120  
 gtattgagct tcttcgctgg agttggaatc ccacaaagat aataagtgc ttttggagggt 180

atcagaagcc gctgattcag acgtgacagt attgggcaaa actattaggg cagcgtttgg 240  
cgctcttg 248

<210> 19265  
<211> 249  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957215H1  
  
<400> 19265

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tgttgaggcc gatttgagaa aaacagctgc caaaatcact gaacgtgcta cagaactatg 120  
caagaagaat ccgtaaatga cgtagcagtg gaagtgctag aaggatgatcc tagaaatgtt 180  
ctttgcgagg cagtggaaaa gcaccaagct tcaatgttgg ttgtgggtag tcatgggttat 240  
gggacttta 249

<210> 19266  
<211> 247  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957217H1  
  
<400> 19266

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ggttctggca ttgggagcct tacatcgaat agattttgct tcacttcgca gtgctgccat 120  
tacatggaag atgtgtttgc aaatgttcca aggccattgc tcgtgggtcaa cattggagga 180  
ccatcaagaa actgtcggta tgggtgtcgac cttgcaaagc agttagcaac atgtttgctc 240  
agtgttc 247

<210> 19267  
<211> 227  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957218H1  
  
<400> 19267



<223> Clone ID: 700957223H1

<400> 19270

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 acaagttaag gcaacaatgt gcatgctgaa gaaaccaatg agcttgtatt ggatgggtgga 180  
 tttccattgc caaaggatgg atatatggcc ccagaaatca attcatttgg ccactccttc 240  
 agagaat 247

<210> 19271

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700957224H1

<400> 19271

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 tctgccatcg ccaaagctgg ttacacaggc aaagttgtca ttggaatgga tgttgcagct 120  
 tctgaattta caaggaagac aaaacatagc atttgaactt caaggaagat aacaatgatg 180  
 gctcccagag gatctctgga gatgctttga aagatctgta caagtcattt gtgtcagagt 240  
 acccaattgt t 251

<210> 19272

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700957225H1

<400> 19272

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 cacatggggc ctctctttca gcatagtagt acttttggaa gatttttgc ccaaaattgg 180  
 aaatgagttt ctctcatctc ctccctcctc tatgtttgtt gggtgcattt aatccacagc 240  
 tactagtcc 249

<210> 19273  
<211> 248  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957226H1

<400> 19273

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tttttagttt ttggatttca ttgcaaagt ttaggacttt attctcaaga gcttttggtt 120  
atggccaaag gttgtgaagg gtgactgcag tacttggatc tttgtttcct tcaatggggt 180  
ggtcacagtt gtctctttca tattcttcct cttgggtcctt tcttggggtt atttatacgc 240  
atttccca 248

<210> 19274  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957227H1

<400> 19274

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gtactcatac atcagatggt attgtgatgt tggcggtgcc cttgatgctt cttggcatac 120  
cttggccttt acgctgaac aagtggtagt agttgaagaa aagaagacga attggtcagc 180  
tttgatcaca ccaatactag tactactcat cctgcttttg ctgtcgctta ttggaactcc 240  
aaggagg 247

<210> 19275  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957231H1

<400> 19275

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catctggggg tctgaccag gtatggcttc gaaacgcac ctgaagggtgc tcaaggattt 120



gcagaagatc ctctacgctc atgcagcgca ggtcctgtgg ctgaagacat gtttactg 180  
 caagccacaa tcatgggacc tgctgatagc ccatatgcag gtggtgtttt cttagtttca 240  
 attcattttc 250

<210> 19276  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957233H1  
 <400> 19276

cagattgttc atattagatc accatgatgc attcatcgca tatctgagga agatcaatga 60  
 ccttcccact gcaaagtctt atgccacaag gaccatcctt ttcttgaacg atgatggcac 120  
 cttaagccat tggccatcga attaagtttg ccacatccta ggggagatga gtttggtgcc 180  
 gtttctagag tcgtcttgcc cgcagaccaa ggtgctgaaa gtacaatttg gctaattgcc 240  
 aagg 244

<210> 19277  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957240H1  
 <400> 19277

caaaataaaa agacttcctt ttttgcaatt gtcatttgtc accaaacaat tggtgttagc 60  
 tctcacaagc aagcttcagc aacgacaatg aagaaagtag tcttacagtt ggacttacat 120  
 ggtgataaat caagcaaaaa gctatgaaaa cagcatctgg cctttcaggg gttgaatcag 180  
 tttctgttga tatgaaagac atgaaaatga tcgtgttggg ggacattgat ccagtgagtg 240  
 cagtgtcg 248

<210> 19278  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957242H1

<400> 19278

ggcgagagtg tggcttggga cattcgacac tgccgaggct gcggccagag cctacgatga 60  
agccgcattg aggttcagag gtaacagagc aaaacttaat ttccccgaaa acgttgtacc 120  
ggttcacctc ctccctccgt tcccgattha ccggcaagtgc cggtagccgg ttccgattcc 180  
atttccggtt ccggttcagt ggtggcaggt ttttcgccga cgtgatgca gggagcgccg 240  
tttcagg 247

<210> 19279

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700957246H1

<400> 19279

caaggtcggg gaaagcgaga ctcaaaccac aaagtttatt gctattaata tatggctttg 60  
ttttccagtg tcaaattgca ttattacaat aatcaaatgc actaaccaca ctccatcacc 120  
cccattatac cccttctcct ctccactaa ttaacactct catcaaaaaa cccttctttc 180  
tttcagggtc attacttgat cagtgtcaaa agggtagttg caaattgcaa tggctaagcc 240  
tgatgtt 247

<210> 19280

<211> 243

<212> DNA

<213> Glycine max

<223> Clone ID: 700957247H1

<400> 19280

gcgaagaata tgtattctag agattcatgg ggtggaccgt tggagataaa cgcgacggac 60  
tcggcgacgg aggacgagcg gagcggaacc tgcaggacgt cgacagggca gcgctgtcgc 120  
gtccttggat gagacgcagc agagctggct ccttggcccc ggcgagcaga agaagaagaa 180  
gtacgtcgat ctccggtgca tcacgtcag ccgcaagatc ttcaagtgga ccctcggcac 240  
aat 243

<210> 19281  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957255H1

<400> 19281

caaaaaccag acatgtccga gtcggaagta gcaggtcaga ggtaccgtgt gggctatgct 60  
 ctccaaggca agaaagtcga aagcttcatt caaccctcac tctcgcgatca cgccaaacaa 120  
 cacagatcta tctcgtccaa atcgacccca cgcaccctt acaacaacaa ggtgctttcc 180  
 actgcatcat tcaattactc cacacccaac actgctccaa ctagctccaa caattctcat 240  
 ccaaaca 247

<210> 19282  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957256H1

<400> 19282

cccagagatg gtaccatgta cctcgatctt ggttgaagcc agatcataac ctgttagttg 60  
 tttttgagga acttggggga gatccttcaa aaatttcact tgtaaagaga tcagtgagca 120  
 gtgtcttgct gatgtgtctg agtaccaccc aaacattagg aattggcaca ttgatagcta 180  
 cggaaaatca gaagagttcc atcctccaaa agttcacttg cattgtagtc ctggccagac 240  
 catttc 246

<210> 19283  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957202H1

<400> 19283

caccagcagt ggcgcttcgc gtacaagggtg accgttcggc cttcttcgac tgtgccatac 60  
 atggttacca ggacacacta tacgcccacg ctcaccgtca gttctaccgt aactgcgaaa 120  
 tctccggaca gtggacttca ttttcgggta cgggacaacc ttgatccaaa gctccaaact 180

catagtgagg aagcctgacc cgtatcaaca gaacatagtg gtggccgatg gcacggacca 240  
gaagaa 246

<210> 19284  
<211> 254  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700957148H1

<400> 19284

attcggctag agcgatgatg atggagtgcc aggctctcct ttgcatgaga atcatgagac 60  
tgacactttt atgacaaatg atgatgtttt ggtcgatgag attcctaata atcagcaaga 120  
tgcatttcgt cagttctgct ttcaaact caaactaggt gttggggcca gagggcacat 180  
gcaattccca gggtcacatc cagtttcttt aaacagggag aatttacaac tgttacgaca 240  
gcgttattat tatg 254

<210> 19285  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957149H1

<400> 19285

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gatagcagaa gatgtgaaga gcagatcaga ggtgtaccac ggggacgaaa tgtgccaagt 120  
gaagtccaag gagcttctca aggaaatcgc cctccccaac ggccttcttc ccctcaagga 180  
catggaggag tgcggctacg acagacaaac cggcttcgtc tggctcaaac aaaagaagag 240  
ttacaccac 250

<210> 19286  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957150H1

<400> 19286  
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 gaaacgaagc gaaatttcca cctgcatcat cttcaaacct gcgcttcttt tgaaccgatt 120  
 tgtgctgttt tgtagtgaa gcacatcgag tgcaaactgt cgaacaggca tggcaagcct 180  
 gttgacaaca tcagccatca cctattctcc tctgcacaat ggcttcaagg atttcagaaa 240  
 gtcagggaat 250

<210> 19287  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957151H1

<400> 19287  
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 aagaggaagc aagggatatt tcagggttag aggaccctgt aacaaccaag gttctgattc 120  
 caggctctgt tgatgattca aaagggtgaat ctgggtgctcc aataagtagt tgtttttggg 180  
 gatggaaacc taaactcaat gtgcactatg agaaggccgg gtgcgataac gtcaatgatt 240  
 tgcctc 246

<210> 19288  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957153H1

<400> 19288  
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 gtggttccat gagagtgtga tgatagtggg agctcgaggt gataggagtg gagaagatgg 120  
 tatccctatg ctactcaaga taccacgtat gtttgatcct tggggtgggtt acagcatcat 180  
 tgggttttggg gacatcatct taccagggt tctagtagca ttttcactaa ggtatgattg 240  
 gttgg 245

<210> 19289

<211> 245  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957155H1  
  
 <400> 19289  
  
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 actgtattgt cttggaaagt tgagaagcaa tccttggtca gaactagatg gtcttcagcc 120  
 agagacaaag ataataaatg agctgctgga aaagattcac acaaagggtc tcctcaccat 180  
 caatagccag ccagctgtca atggggaaaa gtcagattct cctactgttg gctgggggtg 240  
 accag 245

<210> 19290  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957156H1  
  
 <400> 19290  
  
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 agtcttgaag aaaaaacatg cttctggaac gtataaaaac ctagtatttt atctggaggc 120  
 atgtgaatct gggagtatct ttgaaggctc tcttcccgaa gatatcaata tttatgcaac 180  
 cacagcttcc aatgcagaag aaagtagttg gggaacatat tgccctgggg agtatcctag 240  
 tcct 244

<210> 19291  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957161H1  
  
 <400> 19291  
  
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 ggagaaggga aggtgagtag taatggtcgt ggatgttgca aatcagggcc aggctatgct 120  
 tccccactgg aagccatttc tgggtcccaga gagtctctca tttatgtaac ctctgtctac 180

acagggaccg gaatagagaa gccagactat ttggcgacag tggatgtgga tccacactct 240

<210> 19292  
<211> 84  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957163H1

<400> 19292

ggatTTTgct gcagTTtaac tctcatggct catctgtttc ttctcaatct ggtattggca 60

ttgggggtcca gtccacaagt cttg 84

<210> 19293  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957167H1

<400> 19293

cgcagagaga gagagatcca tcatcaatt aatttccaat ggccgatcag ctcaccgacg 60

aacagatctc tgagttcaag gaagccttta gcctcttcga caaggacggc gatggttgta 120

ttaccaccaa ggaacttggg actgtgatgc ggtcgcttgg gcagaacca actgaggctg 180

agctgcagga catgataaat gaggttgatg ctgatgggaa tggttccatt gatttcccag 240

aattcct 247

<210> 19294  
<211> 81  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957170H1

<400> 19294

ggctcgagct tgctatTTgt atcatcttgt gtaccttctt aagctTTgag caattccctt 60

ttactTTtat ttcactccat g 81

<210> 19295  
<211> 244  
<212> DNA

002220" E T T E 560

<213> Glycine max  
 <223> Clone ID: 700957171H1  
 <400> 19295

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 acaacaccct cttaatcttc tccacacaac acacaactct caaaaattac ataaattcct 120  
 agcccaaaaa cttgatcagt aaacaaacat gggaaactcc gtgcgtgtaa aagaagcatc 180  
 tgtggttaca cttactgagc ccactccatc gagtgtgttg gctctatcag ctcttgattc 240  
 gcaa 244

<210> 19296  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957172H1  
 <400> 19296

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 gtagccgccg ccgaacggat cgacgatgaa gacgaccttc tgatccgtca agtggtgccg 120  
 gatgcgagg accaccacct gctcaacgag gagcaccact tctccgcctt caagacaaag 180  
 ttcggcaaga cctacgccac gcaggaggag cagcaccacc gcttccgtat cttcaagaac 240  
 a 241

<210> 19297  
 <211> 242  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957173H1  
 <400> 19297

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 acattacctt gtgtcaccaa ctactttgac tcctttacca taccattaca ataattatca 120  
 aacctaacca gtaaaaatgg tgaccgtgga ggaaatccgc aacgctcagc gttcccatgg 180  
 acccgccacc atcttggcct tcggcaccgc cagcgcgtcc aactgctctt cccaagccga 240





<210> 19301  
<211> 244  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957184H1

<400> 19301

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aaaacgttgc tgttcgagtc attgactcta tcaatatcac tttgggtgct gaggatgaat 120  
tgaaacaagc gggtgctttt gttcggccag ttagtggtggc atttgaggta gcgaaggact 180  
tccgattcta caataatgga gtttacacta gtaccatttg tggtagcacg cccatggatg 240  
taaa 244

<210> 19302  
<211> 223  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957186H1

<400> 19302

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tctatcgctc gctttccttt gacgcttctg acccttgctt tgtctgcgtc ttccttcttt 120  
ctttctttct ttctctgtgt gtcgtaatgg ctctcccaga ctcttcttcc cgtcgcaact 180  
ccctgatccc ctcttctatc tactctcttt cctccaaaac gct 223

<210> 19303  
<211> 241  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957187H1

<400> 19303

caccaggcgc acgttagcac aaactatcat ggccacggca acagcagctg ccacctcgctc 60  
ctttatgggg acgctgtctc tggaggctca ctccggagcg gggcgagtgc acgcccatt 120  
cggcttcggc aagaaaaagg ctcccgcccc aaagaaagcc tccaggggat cgggccgaga 180

caccgacaga cccctttggt atccgggcgc caaagcgccc gaatacctcg atgggagtct 240  
t 241

<210> 19304  
<211> 241  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957188H1  
  
<400> 19304

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gcttctctgt ctttgtaacc gaaagggggg aaaatataat taacaccgat ttcgcgacca 120  
attcttcttc tgcgttgaat tgggacaacg agaaattgga tctcagtttt tggcaggaaa 180  
taaaaattgc atttgagtgt aaaataacag agtatagtgt agggccttgt tcttgatact 240  
g 241

<210> 19305  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957190H1  
  
<400> 19305

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tgatgcttac tccagtcata aatgctgtaa aaaacaaagt ttcattggcat tacaacaaaa 120  
ggttcacaca tatgtttgtc agtacttcca tgctcattag cactcttatt gtagccgtgg 180  
caattccctt gtttggatat ctcatgtcac tcattggggc attactaagt gtctca 236

<210> 19306  
<211> 238  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957191H1  
  
<400> 19306

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cacttttgag atttttccaa cctgaagact cctcttctt ggttggtttt ttctccaaac 120  
aaa 123

<210> 19310  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957196H1  
  
<400> 19310

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tcgttgcat ggaacttgta gctgaatccg agcgaactct gtaccatac gtgactggat 120  
cctctgtagt cgctatcaaa tacaagatg ggattctaata ggccgctgac atgggaggtt 180  
cgtatggatc taccctgcgg tataagagtg ttgagcgtat caagcctatt ggaaag 236

<210> 19311  
<211> 249  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957201H1  
  
<400> 19311

ggcttatggt ggatacctag gcacccagag acgaggaagg gcgtagtaag cgacgaaatg 60  
cttcggggag ttgaaaataa gcgtagatcc ggggattccc gatataggtc aacctttcga 120  
actgctgtga atccacgggc aggcaagaga caacctggtg aactgaaaca tcttagtagc 180  
cagaggaaaa gaaagcaaaa gcgattcccg tagtagcggc gagcgaaatg ggagcagcct 240  
aaaccgtga 249

<210> 19312  
<211> 261  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700957094H1  
  
<400> 19312

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agtgaatggg tcagattatg ctttggtgtc caaaacttgt gttctgcaca cagctcatgt 120  
 gggtaatacc tcctttttca tgacctgctt ccatctcatt aatgccttct caggagttag 180  
 tattatttcc atgccttatg cactggcatc tgggggatgg ttaagcatat ccctactatt 240  
 tgtgattgcc attgcttggt g 261

<210> 19313  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957095H1  
 <400> 19313

gctacaagca ctcccttgga gaagatgttg cagctcatat ctctggccat ctacgccagc 60  
 ttttagtggg gttggtgacc tcatataggt atgttggtga tgagatcaat ccaaaattgg 120  
 cacaaactga ggctgaaatt cttcatgatg ctgtgaaaga gaagaagggt agctatgaag 180  
 agaccattag ggtcttgacc acaaggagca ggacccaact tggtgcaact ttcaaccgct 240  
 acagagagat ccatggcact t 261

<210> 19314  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957101H1  
 <400> 19314

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 ttttattttg cttctcttcc ttggagaaga gttttgcctt tcaaacaaca aaggagtcca 120  
 cagaaagcaa caatcttcat caatatactc atcttggtca cctcagctca ctccttcctt 180  
 catcttcttg cagctcttct gccaaaggte tcaaaagaaa agcatcatta gaagtggtag 240  
 acaaacatgg gccatgctcc 260

<210> 19315  
 <211> 253  
 <212> DNA  
 <213> Glycine max



<210> 19318  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957105H1  
  
 <400> 19318  
  
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 aatattctgg aatcggcattg acacaacatc cacaatatgt aacagtaagg aatgaacgtg 120  
 gaagagagat gttgagtctt atagagaact tactggagat tactccaaca attagtactg 180  
 gggataggcg accatttgtc atggagactg ttaaggctga tgatgaagct aagttaggaa 240  
 gaggtccttc tc 252

<210> 19319  
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 <213> Glycine max  
  
 <223> Clone ID: 700957106H1  
  
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 cttcaccgtc atattcctcc tccttgcaat attattcact ctcacacccc acaaggccaa 120  
 cggtgccacg tgtcaccctg aggaagaagc gggcctgttg ggcttcaaat ccggtatccg 180  
 atccgacccg tccggcctgc tcagtaactg gatatcgggt acggactgct gcacatggac 240  
 cggagtagaa tg 252

<210> 19320  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957107H1  
  
 <400> 19320  
  
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 tcttgcatct gcgggcaagc cttttgtgcc aatgggagtt tttggctcta ttgttcctgt 120



tctgactctt ggctcatttt ctaagagatg gatagttcct ggatggaggc ttggttggtt 180  
 tgtgacaaat gatccatctg gcacttttag aaatccaaag gtagatgagc gcttcaaaaa 240  
 gtactttg 248

<210> 19321  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957113H1  
 <400> 19321

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 aaatgtctat gctagcttcc ccctccagc tcctggaact gaacatcata tccgccaag 120

<210> 19322  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957115H1  
 <400> 19322

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 catggacaca ttcaagagtt atgttcttaa ggagccgatt ggagtcgctt ctttaataac 120  
 tccttgaat tatctctctg ttgatggcta cgtggaaggt tgctcctgct ctggcgccg 180  
 gctgtgctgc aatattgaag ccctctgagt tggcatctgt gacatgtttg gagctcgctg 240  
 aaattt 246

<210> 19323  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700957119H1  
 <400> 19323

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<400> 19326  
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cctgttggtt atcaaggaca gtttccactg tc 152

<210> 19327  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957124H1

<400> 19327  
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aaaaatgggg acgacgaaga acaacaacaa caacttcaat tctacctcaa aatctgataa 120  
cagtgccaat gacaacaaaa acaacacacg tgtggtgttg aatgtctacg acctcacccc 180  
tctcaacaat tacctttatt ggtttgggtt tggaaatcttt cactccggca ttgaagtgca 240  
cggttaaggag 250

<210> 19328  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957125H1

<400> 19328  
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gtgaatcaag cactagtact catcactgta ggtggcaatg attttgtaaa caactacttc 180  
ttggtgccca attcagcaag gtctcgccaa taccattac ctcaatatgt caagtatctc 240  
atttctg 247

<210> 19329  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957127H1

<400> 19329

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ccttggctct ttacgcgtga acaagtggta gtagttgaag aaaagaagac gaattgggtca 180  
gctttgatca caccaatact agtactactc atcctgcttt tgctgtcgct tattggaact 240  
ccaagg 246

<210> 19330  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957131H1

<400> 19330

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ttaaattgaa aatgaattag tattaacctc gaaccagaca tgtctatata tatatatata 180  
tatatgggtca cggttacact tcatgtagtg ttctacctta ctggactatg gtagagattt 240  
tactc 245

<210> 19331  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957133H1

<400> 19331

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cggccaagtc tatgtcttcg acgctgttac acctgataag gttcaagcag tggttggtgct 120  
gttgggagga aatgaactaa cttcgggttc gcaatgtgcg gagctatcat ctcaaatca 180  
gactgggtgag gaggaatatc ctgcaaaatg tagtctacca cagcgagcag cgtcattgaa 240  
taggtttcgt caga 254

<210> 19332  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957134H1  
  
 <400> 19332  
  
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 ctttcggtgg taatgttgag gccattgaac atagatggaa ccaacatggt cttggagggg 180  
 ataatgtaag aaatagttgt aggactctgc atcctgggtcc agttagtttg ctacattgga 240  
 gtggtaaa 248

<210> 19333  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957138H1  
  
 <400> 19333  
  
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 ttgagcttcc tctcagtttc acgtttgctc ggtgtgaggt ctgataccct acagaatgtc 120  
 ggcgcaattc cccccacatg caagcgcata tagtgtccca gctatgatgt cattcacgta 180  
 ggcaacggct acgaaatccg tcgctataat tcacccgttt ggatttcaaa cagccccatt 240  
 caggac 246

<210> 19334  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957139H1  
  
 <400> 19334  
  
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 gttgcttcta gcacactttc atttgggcatt aagccaactt gagctgaatt actactctaa 120

aagctgcccc aaagctgaag agatcatcaa ggaacaagtc acacaactat ataacaagca 180  
 tggaaacact gccgtttcgt gggtcagaaa tctcttcac gattgcgtgg ttaagtcatg 240  
 cgatgcat 248

<210> 19335  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957140H1

<400> 19335

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 gtgtggcaga cctgaagggc ccagatagcc ctactggcta tcaactgcaag ccacctaata 120  
 cagtaacatc acatgacttt gtgttcatt taggccctgg aaccacttca aacgtgttca 180  
 agtccgcaat aacctctgca tttgtcaaag attttcctgc tgtcaacggc cttagccttt 240  
 ctgtagca 248

<210> 19336  
 <211> 124  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957142H1

<400> 19336

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 tgataagggt gggaatgtag atggagatgc agaacaagga atttatgaag cttctacacc 120  
 ccca 124

<210> 19337  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700957093H1

<400> 19337

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<223> Clone ID: 700957054H1

<400> 19340

catcatcata gtggtgtcct ttctctgctc tttgcactct ctgacacatt tgggtgccttg 60  
tagagcgtgt tttggcagga aggtggtatg gcgaaggacg ttgaggttgc tgagcgtggc 120  
tccttctctg ggatggacta ccaggagcct ccaccagcac cactc 165

<210> 19341

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700957055H1

<400> 19341

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cccttagtaa cggcgagcga accgggcaaa gccaccatg aaaatcggtc gccctcggcg 120  
tccgaattgt agtctggaga aggcgctaaa ggagttgaaa gccaaaggcg aacagaaggg 180  
aagctttgga ggttctgggc tcaagaaaag tggaaagaaa taagggctct ttatcatgat 240  
tgtatacatc caatattgag cc 262

<210> 19342

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700957056H1

<400> 19342

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ttcactgttg ctggactcca caagaaggag cttgtctgag aaggaaacag atagaagctt 120  
tgggttgaga aatttcaggt acattgagac catcaaagaa gctttggaaa gggaatgccc 180  
aggagttggt tctgtgctg atatcctcgt tctctctgcc agagatggca ttgtttcgct 240  
aggaggtccc atatccctct ta 262

<210> 19343

<211> 147

<212> DNA





<213> Glycine max

<223> Clone ID: 700957062H1

<400> 19346

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aatgcttttg cagagatagt ttctactgat ggaagatatt ccgatacatt tgcgaggata 120  
ttgtatgaac taacatctag accaagtaac aaagtggcag cggctcgtgg catatggggg 180  
atgtaaacaat caaactgtga aatgactttg attagtgatc agtgctatat atagttttgc 240  
gacttggatg gcttttggac gac 263

<210> 19347

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700957064H1

<400> 19347

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tgatgagaag gttgactttc ttattactga agcaccatta ttgaagccc catcaccacc 120  
tctctctgga gaggatgatg tgtccagtag tggaccactt gatgaattgg caattattgt 180  
ccgtaaaatg aaagaatcta ttgctgtgaa ggatcggctg tataaaatgc gcagggtcac 240  
taactctttt ctcagctc 258

<210> 19348

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: 700957065H1

<400> 19348

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acaacccaag tcttgattgt tttggacaag catgagaacc gcgataactta tgtggtagct 120  
ttccgaggaa cggaaccctt tgatgcagat gcatgggtgca ctgaccttga catctcatgg 180  
tacgggatcc ccggcattgg aaaaatgcat ggtggcttca tgaaagcctt agggctacag 240

aaaaatgtgg ggtggcctaa

260

<210> 19349  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957066H1

<400> 19349

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acctgttgcc tcaattgcac tctggatggg ccgtcgatca agcaatcctc gccgaagatg 120  
agcgtctcgt cgtcatccgt ttcggccacg actgggacga aacctgcatg cagatggacg 180  
aggtgttggc gtcagtggcg gagacgataa agaactttgc ggtgatatac ctggtggaca 240  
tcacggcagt gccggatttc aacac 265

<210> 19350  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957067H1

<400> 19350

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ctgttaaatt aaatcaactt taggacaaaa cttgtccctt aaaaagagat agtaactcca 120  
actccaagtc acatcgggtga caaagttaga aacaaggaga aagaaagaag atggcaggaa 180  
agaaaatccc agatgtgttg ctgaattcag gacacaaaat gccagttata ggcatgggaa 240  
cttcagtgga gaatcgtcca tcaaa 265

<210> 19351  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957069H1

<400> 19351

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tgagaaatgg cttgagatgt tgagggtcaa tagcaaggag gagagtactc tgccaaagac 120  
taccatgacc ctctccagc acctttgttc gaccagagg agctcacaca gtggtccttc 180  
tatagagctc tcacgctga gtccatagca agccttctct tcctttatgt cactgtgctc 240  
accattattg gctacaaa 258

<210> 19352  
<211> 260  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700957071H1

<400> 19352

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cggcattttt gtggtttatt gctcaacatg cttttgtaag ttgtgctttg acatttgagt 120  
tgcaaagcaa aattgctaaa gccaaccaag agggacctta cctaggttta atcataccaa 180  
attcttttga actagacctt cttcttcaga atcctggcta cacagctagt gacaccatca 240  
tagacttcgc tggaaggaga 260

<210> 19353  
<211> 130  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957072H1

<400> 19353

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ttggcgccgt ttaagacacc agaattcctg ttctatgcct ccttttgagt gaaaaagaag 120  
agacatcaaa 130

<210> 19354  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957074H1

<400> 19354

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agagcacaga attctctgcc ctcaactgca tcgacctctc caaccctgac atcaaccaat 120  
ccgtcaatth actcaaacag gcatgtttgg attccgggttt tttctacgtt gtcaatcatg 180  
gaataagcca ggaattcatg gaagagggtt ttgcacagag caagaaattc ttctctcttc 240  
ctcacaagga gaaga 255

<210> 19355  
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<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957075H1  
<400> 19355

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catctcagtc atgggcctgc tatcttggtt taggtctacc gtcctgagaa aatgttccaa 120  
aggaagctct ggcattgtcaa gattcctgta tacgaacaat tttcaacgaa acttgatttc 180  
gtctggtggc aatgaatcgt attatgggta ttttaacagg agatcataca cttcacttta 240  
tatgggaact ggaactgtgg 260

<210> 19356  
<211> 264  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700957080H1  
<400> 19356

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aaatggtatt gctctcgagc cgaatcggct cgtgatttgg ttattatctt catagctcaa 120  
tgagaaagtc gacatgaacc aagagtagca ctacattact actatccatt gagccaatca 180  
atctctctac cattgatgca atacaacctc cgattctgaa tagaatatcc catgatcacg 240  
atttacaaca gagattgaga ggca 264

<210> 19357  
<211> 264

<212> DNA  
<213> Glycine max

<223> Clone ID: 700957081H1

<400> 19357

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caggaaaaag tgggattttc agttcctcac aggcattct tgtgaagcca gtgaagaggc 120  
agatgatggg gaagagcaag ggattgagaa ttgcatgcc aaccaccagc atttccgctg 180  
atagagtccc tgacatgggc aaaagacagc tcatgaatct tcttcttctt ggtgccattt 240  
cactccccac tgctggaatg ctta 264

<210> 19358  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957082H1

<400> 19358

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atggacaaat catccaactt tgatgaaaat tctgatgtgg ggtatcacc ttcttcacct 120  
tccaatactc ctgctttttc cccaatgagt agagaacctt ttgcatattg cccaacatgg 180  
acaagctcag agtctgagac tgtagacgag agcagctatg ccagtgaacc ttcaccttct 240  
cggtggagag ttaaacagga 260

<210> 19359  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957084H1

<400> 19359

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attactatag caaacctgc aggaacactg gtttctctta gtctcattgc cagcaccatc 120  
tatgatgctg aagcagagaa acaacatgc caaaatatga tgttgctgt gctgaatgct 180  
agtgagcctc taaagtgcga aggttccgta tgttcttcc taacttccat gatcatggca 240







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<211> 53  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957092H1

<400> 19366

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<210> 19367  
<211> 269  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957009H1

<400> 19367

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acaatactta attggcaata aaagtaatga gttgcgaaag caagcaatat aaattaatta 180  
aaaagtaatg attgtgcttc tttattcttt aattatgttt atttcattac ttaactttag 240  
agtttagctac attttggttat ctcaaggaa 269

<210> 19368  
<211> 226  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957010H1

<400> 19368

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caattatggc tagcttgaat gttgcatgtg tggctgtaat gtgcatggct atggtgagtg 120  
caccattgat ggtgcaagcc gtcacatgca acgtgcctat cttaccctga tgcaggggtg 180  
atcggtaacg atcggattcg tgctgtggcg gagtgaggaa cattct 226

<210> 19369  
<211> 267

<212> DNA  
<213> Glycine max

<223> Clone ID: 700957012H1

<400> 19369

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aactccgcct ctgtttttgt gatcgaaaac cataaaaaag ttgtttccga tcaactgcctt 120  
aatcggattc agctgttggt cctcctctc aatttcgaat attgaaaggc tttagttggt 180  
gattttggtc aagtctctag tcaacctgtg aattttttat tcaagtttaa aaatatatag 240  
agcaatgagt gttgttttcg aggaaca 267

<210> 19370  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957014H1

<400> 19370

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ggttgatgat ggtcctcttg gtttggataa gaacactggg aaacctagg gttttgcgct 120  
ttttgtgtac aagtctgtgg agagtgccaa gaaggctttg gaagagcctc ataagaacta 180  
tgaggggcat actttgtatt gtcagaatgc tgttgatggt cctaattggga gcaaggggta 240  
tcatcatcag 250

<210> 19371  
<211> 172  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700957015H1

<400> 19371

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tctctgctct ctttcttctt ctacaccac accggaggag agaaaaccaa tatcactctt 120  
caccgttagg gttagggttt cggtttcccc ctaatccaat cgcgagagc ag 172

<210> 19372  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957017H1  
  
 <400> 19372  
  
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 cagactttta ctcatgcacc tgcccaaact tggtgcctat agtgaagaaa ggagtggcca 120  
 aagccattca gaaagaacca cgcattggcg cttccttact ccgattgcat ttccatgact 180  
 gctttgtaaa cggttgtgat gcactatac tggtggatga tacaagcaac ttcattgggg 240  
 agcaaacagc agcagctaac aaccaatcag ct 272

<210> 19373  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957018H1  
  
 <400> 19373  
  
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 aaacttgttt gatactgagc agggatttaa aagggaacaa agattcacct caaaatcccc 120  
 tgccgatgag ataatacaaa agattgagga agccgcaaaa cctcttggct ttgatgtgca 180  
 gaagaaaaat tacaagatga ggcttgcaaa tgtgaaagct ggaaggaagg gaaaccttaa 240  
 tggtgccaca gagatatttc aagtggcac 269

<210> 19374  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700957019H1  
  
 <400> 19374  
  
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 gctctgtgtc tgatgttcct tggtctgcac atagcttggc ttgtagcatc atcggtatctc 120  
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<210> 19384  
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 <213> Glycine max  
  
 <223> Clone ID: 700957034H1  
  
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 tgtggaggca aacagaggat gctgtggtac cgggactgta gagacaacat cttgttgtg 180  
  
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<210> 19385  
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<210> 19386  
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 <212> DNA





003220-03200

<210> 19389  
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<212> DNA  
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<223> Clone ID: 700957042H1

<400> 19389

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agcttcagct atgctccttc tgtttcggcc acaactgaaa tttcagggaa tgaagtgaac 180  
acagatggga aggtgataaa tgaagagtta gcaaaaccaa gtctaaaagg acatgatgaa 240  
gaagcaaagt tcaaaggatt ttt 263

<210> 19390  
<211> 199  
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<223> Clone ID: 700957045H1

<400> 19390

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agttcttttg gatcctgcag cttctgtgtc ctggggtaag atggtggaca tcatagtcac 180  
actcctttct cgggcagtg 199

<210> 19391  
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<213> Glycine max

<223> Clone ID: 700957008H1

<400> 19391

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aaacggcacc gcatgtcctt tccctcacia ccccttcgcg ttccactccc ttcactttac 180  
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270

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<223> Clone ID: 700957048H1

<400>	19392
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<223> Clone ID: 700957049H1

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ctgctttctt tcgactctat tgtcttctta ataaatacag aaagaaacaa aaaagaaaaa 180

agtttatagg tgcctagaag aaaagacaat atagtgtgga gcaattacgc ttgatcacia 240

gggaaattaa aggtgcaacg gttttg 266

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<223> Clone ID: 700957050H1

<400> 19394

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caaacaaatc cagcaccgct tccacgtttt ctt 153

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 <213> Glycine max  
  
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<210> 19396  
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 <223> Clone ID: 700956958H1  
  
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<210> 19397  
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 <213> Glycine max  
  
 <223> Clone ID: 700956963H1  
  
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<210> 19398  
 <211> 272  
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 <213> Glycine max  
  
 <223> Clone ID: 700956964H1  
  
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 cggattggaa gtacaaattc gaaagttcaa cttcttgac taactttgtt ggacgaaatc 240  
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 <211> 80  
 <212> DNA  
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<223> Clone ID: 700956974H1

<400> 19402

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<210> 19403  
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 <212> DNA  
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<223> Clone ID: 700956975H1

<400> 19403

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<210> 19404  
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 <212> DNA  
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<223> Clone ID: 700956976H1

<400> 19404

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 tctttgttca agaagctcat ggcggatgct ggtgaagggt gcaagtcctt gcacctttct 180

gacacacagt ggtagtaagc gaagaggggt tggcaaagta agagttactg ctgaagactc 240  
agttttctccc tctgagacca ttgcag 266

<210> 19405  
<211> 264  
<212> DNA  
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<223> Clone ID: 700956977H1

<400> 19405

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tgatgccaaa cccaaaagct ggcactgtaa caccaaata tccccagct atagcagaat 180  
tcaagcagg gaaagttgaa tacagggcag acaaaaactgg aatcgtgcac ttaccttttg 240  
gaaaagctga ctttccagaa gagg 264

<210> 19406  
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<212> DNA  
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<223> Clone ID: 700956978H1

<400> 19406

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gcctaaggct gatgagatga agcaggtggt tgacaagttt gattccaata aagatgggaa 180  
aattttctcaa caggagtaca aagccaccat gaaggctcta ggcattggggg actcgggttca 240  
tgaagtgccg aatattttca ggggtggttg 269

<210> 19407  
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<212> DNA  
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<223> Clone ID: 700956980H1

<400> 19407

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 agcaacaaaa taaccatcct caagcaaata ataatggtgg tgacaacact cagcttcttc 180  
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<210> 19408  
 <211> 187  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956985H1  
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 atatatt 187

<210> 19409  
 <211> 269  
 <212> DNA  
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 <223> Clone ID: 700956988H1  
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 ggaaggaaca cgcaccagcg tctccttcag catcaaaaaca attctaacac tggaaaactt 180  
 gtacgtgatt ctgggaccta tgctgtctct tttcatatgc ctcttcgtga agctcgacgc 240  
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<210> 19410  
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 <213> Glycine max  
 <223> Clone ID: 700956990H1

<400> 19410  
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 ggtatcggtg cattcatcac gcgcctccgt gatggaggac cttgaatatg tcttcaaaaa 180  
 gttcgacgca aacggcgacg gaaaaatctc cgcttcggaa ctcggtccc tgatgaagag 240  
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<210> 19411  
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 <212> DNA  
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<223> Clone ID: 700956991H1

<400> 19411  
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 tggaattact atttgttgac atgtcccaag cttgagagga ttataaggaa gcattctgag 180  
 gatgtcttcg agaaggacag tggagtagct cctggcatac ttcgactctt cttccatgac 240  
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<210> 19412  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956992H1

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 tcaaaacatc agttctcacc ctctgggata ctttcagcat tccgaacaaa ttggttcaga 180  
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 atactaaata tacatttttt tccat 265



<210> 19413  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956993H1  
  
 <400> 19413  
  
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 gcctaaatct aatattcgcc cgtcccaatt tagttcagag ataagaggga tttaagggtt 180  
 cg 182

<210> 19414  
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 <213> Glycine max  
  
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 cttcggggag tgcgaaataa gcgtatatcc ggggattccc gctataggtc agaccttttcg 120  
 aactgctgct gacatccacg g 141

<210> 19415  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956995H1  
  
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 cttcatggtc ttcttcagtt taattatggc ttttttggt ctatgatata cccacatgga 180  
 ttatggagtgc tcgctactat acacttggtt caattaagat tcttttcttt ctttaatatata 240  
 tgtcaaggaa ataaaacgct g 261

<210> 19416  
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<213> Glycine max

<223> Clone ID: 700956996H1

<400> 19416

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gacagtttta gaccctgtgg ttacagctgt tgcattagga aggaaaatta gctgtgtcac 180  
atatagcata agcaaattca ctgaaataat ttcaccaatc aaagctgtgg cactctct 238

<210> 19417  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957001H1

<400> 19417

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ccgaatacgt tgagtttcac ggaattgtac gagaagaagg actatacggg gtcgtttaca 180  
tacacttcca tgccgtctgg gacgaccagc ttcgcacgtt tggaatggac ggatgggaag 240  
cataaggttg gtagtccaat tgcgttcagc t 271

<210> 19418  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957003H1

<400> 19418

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gcaagcccaa agcctccaaa tccgtttcaa gatcgagaa agctggtctc caattccccg 180  
ttggaagaat cgctcgattc cttaaggctg ggaaatacgc tgagcgtgtt ggtgctggtg 240

ctcctgtgta cctctctgca gtgctcgagt atc

273

<210> 19419  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957005H1

<400> 19419

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tcggagcgaa gttctgggag gtgatatgcg acgagcacgg catcgaccac accggaaagt 180  
acagtggcga ctctgaactc caattggaac gcatcaatgt ttattacaac gaagcgagtg 240  
gcggaaggta cgttccacgc gccgtcctca 270

<210> 19420  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956956H1

<400> 19420

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gagcaaccag gcatcacaac cgttcaaggg gtgaaccttg aggtgccaat tattgatttt 180  
agtgacccag atgaaggga agtggtgcat gagattttgg aggcaagtag ggactggggc 240  
atgttccaaa ttgtgaacca tgacatacct agt 273

<210> 19421  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700957006H1

<400> 19421

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 cactcacaga agcctctgcg ccacagtctg catgcctcag caaaatgcac ttgtcactga 180  
 gggaaattgc attgacactt cattgataac ttctagccaa agctctttta tgagaaaatg 240  
 atttaacgtc ttttaattttc tccaaacaaa gta 273

<210> 19422  
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 <213> Glycine max  
 <223> Clone ID: 700957007H1  
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 ctcacagtgc ttctccagga tcatattggt ggcctgcagg ttctttacca gaacatgtgg 180  
 attgatataa cccagaacc tggggctctt gttgttaaca ttggtgatct tctacagctt 240  
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<210> 19423  
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 <223> Clone ID: 700956912H1  
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 atcgtcttct tccgacgcaa gacaat 86

<210> 19424  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956913H1  
 <400> 19424

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gatcagagtt ccttcaagtc ctgcgtagta ggcgacccgc tcaagttcca ctaaaagtcg 120  
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<210> 19425  
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<212> DNA  
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<223> Clone ID: 700956914H1

<400> 19425

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catggaaatg gcttccactc cccgcaccgt cccagagatc ttcaaggact acaccgccc 180  
cagaaccgcc atcgttcgcg ctctctctca agatgtggat gaattctacg gactctgcga 240  
tccagataag gagaattgtg cctctatgga catccg 276

<210> 19426  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956916H1

<400> 19426

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cgggagggtc agcatgagga agaccgtcac caagcaggcc tcctccggaa gcccattgta 180  
cggcccagac cgcgtcaagt acttggggcc catctctggc gaagcccc 228

<210> 19427  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956917H1

<400> 19427

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atgtcacctg tgcagcagtg gcaaaatcat cagtctgtgt cagaggggtc acaggtacct 120  
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 tttagctatg aaatgtctgt taatgggaaa actcttcata gagactatct ggatgctcac 240  
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<210> 19428  
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 <212> DNA  
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<223> Clone ID: 700956920H1

<400> 19428

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 agaatggtga tggtagcatg agagttattt ctctgggtat cggtgactct actctcatca 180  
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<210> 19429  
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 <212> DNA  
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<223> Clone ID: 700956922H1

<400> 19429

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<210> 19430  
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 <212> DNA  
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<223> Clone ID: 700956929H1

<400> 19433

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 agttttctgaa gtaaaggctg gaattgatga agcagaagct ttgattagaa aaatggacct 180  
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<210> 19434

<211> 118

<212> DNA

<213> Glycine max

<223> Clone ID: 700956930H1

<400> 19434

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<210> 19435

<211> 116

<212> DNA

<213> Glycine max

<223> Clone ID: 700956931H1

<400> 19435

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<210> 19436

<211> 222

<212> DNA

<213> Glycine max

<223> Clone ID: 700956932H1

<400> 19436

gtgatttcag tgagtgatcg gtgttcactt gatctcatca taatcgtcag cgtcaattga 60



agaagatgcc gatcagaaac atcgccgtcg gaaggcctga agaggcgact caccgccaca 120  
 cgttgaaggc ggctttggct gagttcatct caaccttcat cttcgtgttc gccggctcag 180  
 gctccggcat cgcctacaaa aagctcaccg acaacggcgc tg 222

<210> 19437  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956934H1  
 <400> 19437

acataaacia aaaaaataaa ctggggagaa gcatgttgtt gatgttggga ctatgcttcc 60  
 tattgttctc tgcatttcca cttgcgttct ctgacagatg ccaccacaaa gacacgaaag 120  
 cgttgctcca actccagaag gacctcggca acccttatca catcatatcc tggaacgcaa 180  
 aggaggattg ctgagagtgg ttctgctgct ttaagtgtga cgagaaaaca aaccgcgtca 240  
 tttagcgttg cttatcatcc ccttttccag acacca 276

<210> 19438  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956935H1  
 <400> 19438

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 cagtgaatca gactcagaat cagaatcaga atcagagaga aacgatgagg gcagtaagtg 120  
 cgттаатггт ggctcggatg ttgacgcggg accactcgct ccctgtcctt ggcaacgaaa 180  
 gcataccctt cggatcggtg tgggtggttcg cctatgccgg cgtctcctgt ttctcgtcc 240  
 tcttcgtgg catcatgtcc ggtctcacc tcgg 274

<210> 19439  
 <211> 151  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<223> Clone ID: 700956936H1

<400> 19439

gaaagctctc agtcctgact caaaggagaa taaagaanag aaatcaagta tttctaagaa 60  
gaaatggttt gggaagcaaa aattggagac ttcagtctca tactcagaag ctcataaagc 120  
accaccacca ccgcgatcta ttcctcaaga c 151

<210> 19440

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700956939H1

<400> 19440

aggctacaga gttgaggctt ggtcttcccg gattccaatc gcctgaaacg gtaccggatc 60  
ttttctcttt aagctcacca aagcttgatg agaagccact cttccctttg cttcctacta 120  
aagacgggat ttgctcgtcg gggcagaaaag ctgttgtttc tggcaacaaa agagggtttg 180  
ctgataccat ggatggggtt tctcagggga agtttgctgg taatacaggg atgaacgcgg 240  
tgctatcacc tagaccttct ggagctcaac ctt 273

<210> 19441

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700956941H1

<400> 19441

aagatcgtga ctatcttctc tctccaactg gggctcaggt gaaagtttct gatcttgaag 60  
ggaaagtagt ggtctatta ttcgctgcga attggtaccc accttgccgt ggattcaccc 120  
aagtcctagc tggaatctac gaggagctaa aaagcagagt ccctcaattt gagattgtgt 180  
atgtgtcctc agatgaggac ttgaatgcct ttaatagctt ctatggaagc atgccctgga 240  
ttgcaattcc gttctctgat ttggaaacaa aga 273

<210> 19442

<211> 274

<212> DNA



attacaacgc tagaaccgcc gacaagccc

269

<210> 19445  
<211> 136  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956947H1  
  
<400> 19445

aagccagatt atgcgtacct caaaaggata ttctgtgacc tgtttatccg tgaaggattc 60  
cagtttgatt atgtctttga ctggaccatt ttgcagtatc agcaatcaca gctagccact 120  
cctccaacac gggcca 136

<210> 19446  
<211> 273  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956950H1  
  
<400> 19446

ggcggagtta ggtgcgagtg agtatgaaca atgaaatgaa taatttggac cactctctgg 60  
tcaagatcaa accatacaac ttctctctca atctaaatcg tcaagggacc atgcaaacat 120  
ctttaaccag aaggcctcta acaattcaag ctacgtatag tgatggtgga aggccagca 180  
gtgctagtgt atttgttggg gggtttctct tgggaggatt aatagttggg actcttggtt 240  
gcgtgtatgc acctcagatc agcaaggccc tag 273

<210> 19447  
<211> 124  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956953H1  
  
<400> 19447

cggaatcatc ggaatctgac agtgacaaca actcctcaaa aaccaacaat tgtcaaacc 60  
tcaatgaaac ggcgctgttt cttgactacg ctcttgcgca ggcccagctt taccacaagg 120  
cctt 124

002250"CTT560

<210> 19448  
<211> 274  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956954H1

<400> 19448

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gaaagaccat caccctcgag gtggaaagct ctgacaccat cgacaacgtc aaggccaaga 120  
tccaggacaa ggacggaatt cccccggatc agcaacgtct catcttcgct cgaaagcagc 180  
tcgaggacgg ccgtaccctc gccgactaca acatccagaa ggagtcaacc cttcaccttg 240  
tccttcgtct ccgtggtggc atgcagatct tcgt 274

<210> 19449  
<211> 136  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956911H1

<400> 19449

ctagattctg ctcttaaagc ccgtcgtttt caaactcttt ttttcccctt cgcttctctg 60  
tctttgtaac cgaaaggggg gaaaatataa ttaacaccga tttcgcgacc aattcttctt 120  
ctgcgttgaa ttggga 136

<210> 19450  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956955H1

<400> 19450

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gagtcttcaa gagttgagga actctgccct cctacgtctt gcagtgcgtg tgactcatgt 120  
caattgtgac gactcattcg atacggcatt ccacgttgac gtgctctccg taggctcaat 180  
ggatgggact cagagccttc tcatattctc gggagcacc ccgggacact ggtcacagat 240

tagacagttg gtgaccttcc acaag

265

<210> 19451  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956859H1

<400> 19451

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gttcttagca gcagcaatgc aaggaacact ggcggttgaa tacagtgtca ccaacaacgc 120  
cctctcaacc cctggtggtg ttcgtttccg tgatgcaata ggggacgaat acgccaaaca 180  
aacacttgac tcagccaccc aatgcatatg gggggtcttc cagcaaaacg ctcttgctga 240  
tagaaaagat atac 254

<210> 19452  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956861H1

<400> 19452

gagattggat cacatatact atctgattct agggttaaat ttttaattcac tctactctct 60  
tactctctcg ctcacgcctc acacgttttc tgtctcttgc tcaactctact cagttccctt 120  
cccaatcgcc gctcagccat caccgtcgcc actcacgggg agactcgccc tctctgaccg 180  
acgttccctc cacatccttc aacaaagttt ccggcgtctg ttcgagcatg tgaatcatag 240  
gaagaggagg cgaatt 256

<210> 19453  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956865H1

<400> 19453

ctcaacttct tttcaattct cgcatttcgg aatcagatat ggaagaaccc gtcattggaac 60



ccttatctct aagtt

75

<210> 19457  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956873H1

<400> 19457

ggaatcatta attctttccg ttccagtagt agcagtttag tttatttcct caactcaaac 60  
taaaatgctc aaaatgggac tcaaaaacct gttcttcttc aaaacatcac cttcgccacc 120  
ttcctcttct cccacaagaa ccttctecta ttcactaatg gacgaaaaca tcgaaaccgc 180  
tcgctccatc atttccaaat gggaacttat ttccccttct taccaaaccg cccctctatt 240  
cagcaacaca cgc 253

<210> 19458  
<211> 63  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956879H1

<400> 19458

gcataatccc ttctggacca gctgagatat ctgaccaacg aaagcagctg aaggccatca 60  
ttg 63

<210> 19459  
<211> 273  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700956881H1

<400> 19459

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cgcaaccatc ggacctacnn actcttggtc tcaagggata cgantttctc tgcactcact 120  
tctaggggtt cctctgcgct atcagcaatc atggccgacg aaacaccaaa tgagatgaag 180  
gaggagggtc cagaaattgt tcctatctct cctaccaaga agaagaagaa gaagaagatt 240



acaattgtag atcctgctga tgaccctgtg gag

273

<210> 19460  
 <211> 126  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956882H1

<400> 19460

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 gtaaagataa aaataacatg cacaacaaca tgagcactct ctctttcttc atccttcttt 120  
 caacac 126

<210> 19461  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956883H1

<400> 19461

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 ccaccccttg ctggcaaggc cgtgaagctg ggcccatcag cccccgaagt cgggagggtc 120  
 agcatgagga agaccgtcac caagcaggcc tcttccggaa gcccatggta cggcccagac 180  
 cgcgtcaagt acttggggccc attctctggc gagccccctg cctacctcac tggcgagttc 240  
 ccaggtgact ac 252

<210> 19462  
 <211> 123  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956884H1

<400> 19462

atcgagccga atcggctcga gccaaactca accgactttt gacgtagctt ccttctccct 60  
 cgttccctct ctctctctct cgctctccgt gttatttaat ctatttcgtg ttaacgacca 120  
 cat 123

<210> 19463  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956886H1  
 <400> 19463

aggaacccaaa tgtttctaga aattgctgtg agaatagcga tgcaacagct gaagcgaacc 60  
 atgtagagaa agaaacttct gcctatagaa atttttctga tgggctgtac ggcacttcag 120  
 ataatggaca gttgggtggt gaggaacata cattggtttc accgaaatcc tccccagaga 180  
 tggccgtaaa tggatcttaa gattttcaaa ccatacagag gaaggcagat tgtttgtgtt 240  
 atttgaccta tggatttggt gg 262

<210> 19464  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956889H1  
 <400> 19464

attagcagaa agttcaaaac cccacagagc tgttttcaaa taaattctgt tctttttatc 60  
 ccattcaagt caacttaaca caaaaagggt tagtctttgg aattgggggt ctgggatttt 120  
 tctatatatg aattgaagtg gagatgatat tgggtgtagtt ggtgagatga aggggtgttct 180  
 ttccatcagt ttcttggttt gttgtgtgct gctgcttttg gattcttcaa tttcacttcc 240  
 tctatgtgt 249

<210> 19465  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956892H1  
 <400> 19465

ccggaattga atagaaatag aatcgctgat tttctctttc tctgactcta gggtttcatt 60  
 attttcttct gtagatccat ctatctagct tcggagctgc aaatggacgt cgagtcact 120

gccttccggt caccgctgat catcctccga agaccggtca acgagtctgc ctcagctcgg 180  
 ttcggttcca cttttggggtt ttccagaaag caacgggttag attcagtatg tatccccaaa 240  
 cacaagcaca agc 253

<210> 19466  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956893H1  
 <400> 19466

ctcgagccgc tcgagccggt ggttttaatt ggtataggcg tgccaagggtc ttgttaattt 60  
 tgagtgttaa gtgctgcaac taatcagatc ccaagacctt ggcctacctt gccatacaga 120  
 aaaaaaaaaa gcaaaaaaaaa agccaagggt tggagccaac aaaaataaac acaaagcaca 180  
 agtcatggaa agaataatgg ttggaagtgc aacaaagggt gctttcaccc tcttggccac 240  
 tttcgccatt g 251

<210> 19467  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956894H1  
 <400> 19467

tgccttatct gctgttctag ttatttggca ttgggatcag taactgcaat tcccaatgca 60  
 aattttcatc gggcgccaag gagcactagt gtgcttctgg ttgttgtctg tgttttttgt 120  
 ggtaacagga ttcaacaatg aagagcacag gacagtggag gtagttggcc taggagaatg 180  
 cgcagactgc aggcagaaca atattaagaa taaccacgct ttctcagggt tacgtgtgac 240  
 ggtagattgc 250

<210> 19468  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956895H1

<400> 19468  
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 ttcagcaatc agcattcact ggtcaaactg ctctgaagca gctcaatgag ttcgtccgca 120  
 agaccggtgg cgccggcaaa ggtcgacta acatgcgccg caccgtcaag agtgctcctc 180  
 agagcatttg gtatggccct gaccgtccca agtacttggg tccattctcg gagcagattc 240  
 catcatacct gaccgga 257

<210> 19469  
 <211> 108  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956896H1

<400> 19469  
 gggaaagaaa tttctgaccc taaccgctg tcgttaaaat cctcaaacgc agagtagaca 60  
 tagaattatc aaaaagcggg gaaagggaga ttgaattcga tcctggga 108

<210> 19470  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956901H1

<400> 19470  
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 tcaactcttg tcttgcgaga gaaagccatg ccagagacga agatttttgg catgctgttt 120  
 ggccaaacac tcccattcca agttcattgc gagatcttct aaagcctggc cctgcaagtg 180  
 ttgaaatcga tgatcaccct atgcaaattg aagaaacaca gtacccgaaa accttcttct 240  
 ataaagcaga ccttcatcca ggcaaaacaa tgaaagtaca att 283

<210> 19471  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956902H1

<400> 19471

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 gaaaaatgag agaaatcatc agcattcaca taggtcaggc cgggatccag gtcggaaaact 120  
 cctgctggga actctactgc ctggaacatg gcatccagcc cgacggcatg atgccttctg 180  
 actccacctt cgggtgtagcc cacgacgect tcaacacctt cttcagcgaa accggatctg 240  
 gcaagcacgt cccccgtgct gtcttcgctg acctcga 277

<210> 19472

<211> 277

<212> DNA

<213> Glycine max

<223> Clone ID: 700956903H1

<400> 19472

acgtcaagga ccaaggggag tgtgggtcgt gttgggtctt cagtacgacg ggagcgttgg 60  
 aaggagctca ttatctggcc actggtgagc tcgtgagcct tagcgagcaa cagcttgtgg 120  
 attgcatca cgtgtgtgat ccagaagaat atggagcgtg tgactcaggc tgtaatggtg 180  
 ggttgatgaa caacgcattt gagtacatac ttcagtctgg gggagtacag aaagaaaagg 240  
 actatccata caccgggaga gatggcacct gcaaatt 277

<210> 19473

<211> 279

<212> DNA

<213> Glycine max

<223> Clone ID: 700956904H1

<400> 19473

aaaatttaaa gaaatcaaca cacacaaaca caacaacata tggaggtgct aagggtgcaa 60  
 accatagctt ccaaatacaa agatgctgcc atcccagcca tgtttgttag ggcagagaca 120  
 gagcaaccag gcatcacaac cgttcaaggg gtgaaccttg aggtgccaat tattgatatt 180  
 agtgacccag atgaaggga agtggtgcat gagatttttg aggcaagtag ggactggggc 240  
 atgttccaaa ttgtgaacca tgacatacct agtcatgtt 279

<210> 19474  
<211> 279  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956906H1

<400> 19474

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tcacactttc acgagccgca tcaccgactc tctgcacctg caactgcaac ttccaacttc 120  
aacttcaacc actgcaagct tagctctgaa agaaaagaaa agaaaaagaa aatatctcca 180  
tttggtttgg ttggtgaaag ttgaaacctt ttcacgagct caagttggta gtaacttttt 240  
taacttggcg gtctcttttt ttctacatcg actctcggt 279

<210> 19475  
<211> 275  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956907H1

<400> 19475

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ctgagcaaca cgcttctcag ttgcatgaca taatacagag tgttcaatta gagcataatg 120  
ggatccaaaa atgctcatgg gaagaaccac aaggacaaaa ggaacaaatt taaggataat 180  
ttgagttcta gttattcatc acccagtgat gccaaaggta tctcatcag tgatcctcga 240  
tattcaaagg ctcacacgga tctcgggttc cgtga 275

<210> 19476  
<211> 278  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956908H1

<400> 19476

agggcagcac gcttgctcgg gagcagagta gatgccatgg aagaactgga tagcgaagat 60  
aaacgagtct tgagtcgaat caagtgctgg tttctatcac actcgcaaca tctgaatttc 120  
tttactattc tagtgcttgc ttcggttcca aatcctctat ttgaccttgc tggcattatg 180



ttactatctt gcctctcttc ttctgctact gctgctcaac ccacacacca ccctgggagc 60  
gcagaacctc atgctaccct accataacgg cgcctctctc aaaggaacca ttaccgttaa 120  
cctcttatgg tacggcagct tcacccaat ccaacgctcc ataatcctcg acttcattaa 180  
ctcgттаagt tccaccgagg gggccccact tccctccgta gcatcggtgt ggaagaccac 240  
ggacaagtac aggggggggat ccactacaa 269

<210> 19480  
<211> 286  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956817H1

<400> 19480  
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ttaaaccatt gatgaaagt gctgtataca catgcgagga ttgtggattt gaaatttacc 120  
aggaagtaac tgctcgggtc ttcatgccct tgtttgaatg cccatcaaag cgctgtgata 180  
caaacagaag aaaggggaat gttatccttc aactaagagc atcaaaattt ttgagatttc 240  
aagaggccaa aattcaagaa ttagctgaac atgtcccaa aggcca 286

<210> 19481  
<211> 266  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956818H1

<400> 19481  
tcaaaatgtc ctccatgggt tctccaccg ctttcttcac accctccat gatttcactc 60  
aagccagaac aaccccatca ccccttttgc ctttcatcaa atcctccttt gcttcttcca 120  
agtcaacctt ttttaccct gcccttttgc tacaaacctc ttccaacttt cccaggcttt 180  
ttggaaagcc taagtttttc tctgttcatt caagggtgc cacagaaaaa accatttatg 240  
attttactgt caaggatatt gacaga 266

<210> 19482  
<211> 263





ctcttgttga tactttac

258

<210> 19485  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956823H1

<400> 19485

cagacagagg catgtgggaa tctgttgtgt tgacggtagc tgccaccgcc ggcaacaaca 60  
 tcggaaagat ccttcagaag aagggcacta tcattcttcc acctctctct ttcaaactca 120  
 aggtcataag gtcttatgct ttaaacaanaa cctgggtggt aggttttcta atggatatat 180  
 taggggcatt attgatgtta agggcattgt ctctggctcc agtgtctgtc atccaaccag 240  
 tttctggctg tggactagc 259

<210> 19486  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956824H1

<400> 19486

cgtttgcgta atcagcagct accttccttc ctctcttctc tcttctctct accataccac 60  
 gggtcggaag gtttctttca tggatgatgg tccttgggaa ataaagggtta ttcgtgatca 120  
 cttttgattt ccaacatctg gtgtagaate tcttgaggac ggaacgcctt ctattacaaa 180  
 acctggaact gctaaattct ttgagggagg tattgcatcc tgggtggaaaa ggggaaagaa 240  
 accaatgatc agaaagtc 258

<210> 19487  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956825H1

<400> 19487

gaaaaacccc actctctgaa gtaaccaacg caacccatca ctctttcttt ctctctcttc 60



<223> Clone ID: 700956832H1

<400> 19490

gggttgtagaa agcagagaag tgagatacac taagttatcc tcataaatac actctaatta 60  
 ggtggcaaga taagtgtcta accttagtaa cattgccaca tatttgtgttc attctggaat 120  
 tgtgccacta aaattctatt caattcatct atggctgcct cttcttatgc tatgcaatca 180  
 atcctggcaa accctttgat ccgcatttcc agcgggtcta gggatgaacca atttggcggt 240  
 cctgctttgc acatgag 257

<210> 19491

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: 700956833H1

<400> 19491

caattgcgat gaaggactca acatcttgac accaccccat ttcctaagtt tgctcctttc 60  
 tctgctcctt cttattgggt ttcatttttg tcttctgggg ttccctttgt tcttttcacg 120  
 tgtgatgtgt tcatgattca tagctccaca ttttgcattt attaatcagt catgtcagtt 180  
 gatttggatt agtcgtgttg gacctggatg ctgctgctaa tacagttgat ccacaaatga 240  
 gattccgtat tgcattgttt 260

<210> 19492

<211> 259

<212> DNA

<213> Glycine max

<223> Clone ID: 700956837H1

<400> 19492

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 agcttgctgg aggtgctgga atgatattgg cgaatagtga agcctacgga gaagagttag 180  
 ttgctgactc tcatcttctt cctgctgcgt ctttgggaca aaaatcaagc gagattttga 240  
 agaactatgt ttcattcttc 259



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255

<210> 19496  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956842H1

<400> 19496

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 tgccctctt gcctggtttc caggggtggc tggatgatgg tgggtgctgct actgtaagag 180  
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 ttgaagctat act 253

<210> 19497  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956846H1

<400> 19497

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 cgagtcccaa actcagctgg tcgactctcc cgagtctgaa agtcagcggg tcgactcacc 180  
 tgagtctaag attcgctgag ttgactcgtc cgagtctcaa ctcgactcgg tccttgactc 240  
 ggaggtgcgt ctacaagac 259

<210> 19498  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956848H1

<400> 19498

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cgaggattca tcagattctg gtgttcagct atccaatgaa cagcagatgg agcatgaggt 120  
 gtaaggggat ttgttggatg ccagtgacca gcagcaactt gaagatcagg aagaacatca 180  
 tgggtggggat tcatcagatt ccagttctct gtgtccctgc attaactggg acaactcaat 240  
 tgcttgtctc agccactggt 260

<210> 19499  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956849H1  
 <400> 19499

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 atcgtgctga taactggagt cggaaaagga ctcggaagag ccctggctct tgaactcgcc 120  
 categtggtc aactataat tggtgctcc cgttctcaag ataacctcaa ttcctccaa 180  
 tccaactct ctttttcttc ttccaacat ttgttactca acgccgacgt gagctccaat 240  
 gagaacgttc aagaaatggc c 261

<210> 19500  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956852H1  
 <400> 19500

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 gtaaaaatgc agcaccttta ccattggaca caccaagttc atcaggtgct ttaaggaaca 120  
 gaactgagcc tttggaaatc aaagatgaat atgctcaatg tagtgatgaa tcattggaac 180  
 tcaacaatga gaagattggg ggtcctgcat ccaggttat agaaaatgca tgcacaatca 240  
 cagctatagt gggaaa 256

<210> 19501  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956856H1

<400> 19501

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 gctaactgat cgttcactct atgagctcgc ccttggttgt cgcgatctta caaaactcaa 180  
 catcagcggg tggtcagcat ttagtgacaa tgctctggct taccttgcca gcttctgcag 240  
 aaaactgaaa gttcta 256

<210> 19502

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: 700956857H1

<400> 19502

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 ttgagccact ttgaatctgt cgccgcaacg gtagatcaaa tcgagtttca cctgaatgct 180  
 ctttctggat gcgatttagg ttgttgaagg aaacaacaag tgaaaacatg attcttctca 240  
 aagacattgt gcct 254

<210> 19503

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: 700956815H1

<400> 19503

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 atttctaca ccattgacta atactcttcc catggagctc tctgaagatt gcagaacatc 180  
 catgaacaga aaccatactc ttatgactgc ttcaactgat ttgtctaata ctagatgaaa 240  
 caatgtttac ctgaatacaa gcaactgt 267





tcagaagtta tacatgatca aagcaacaaa ctaggttcat tttctcatgg ttttacttat 240  
tctggac 247

<210> 19507  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956780H1

<400> 19507

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tgcccagggt tcaggagcca gggcagttgg atttccacag atggcaaata cgcagccat 180  
tgcagctgcc tttgggggag gtctgcctcc tgggaataact gggacaaatg acaggtgtac 240  
agttcttgta tca 253

<210> 19508  
<211> 276  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956781H1

<400> 19508

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gtttcgaatc tccccttaga tcacaccgat ttgccttct tctttctctt taaacttttag 120  
gctcgctagg gttaggggta gggttagggt taggttttcg gtgaggcgag agagtatgag 180  
gttgagggag gacttgccgt gtaaaaacga tgacgtttgt gagaaagagg aagtgatgat 240  
agagaatgat gtaaccgtgg cccaaaatca ttggtg 276

<210> 19509  
<211> 266  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700956782H1

<400> 19509

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ttcatcactc atgaaaacta ttaagggggc aacaactggg ttagttgctg gcactatctg 180  
ggggaccgta gttgccacct ggtatgatgt ccctcgtgta gagagaaatt gttgctcttc 240  
cacgggctnn gagttaggac tttcaa 266

<210> 19510  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956783H1

<400> 19510

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aacctcaac ttctgacac cactcgcagc ccctgagatt cggcggcggc tagcgtcggg 120  
ggcggcagct gcgacgagg accctccgca atcgccgctg tcgttcaact tctcgtcggg 180  
gggggagaag gtgtacgtga agccgcgggc ggggaagtgg aagccgtcgc cgtcgtcgcac 240  
ggttacgatg ccgatgtcg 259

<210> 19511  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956784H1

<400> 19511

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tccgtcgggt ctctgattcc tgaaatatta gacctattgg gagcctttca cttttagaaa 120  
ccagtgtggg ggcgtgttgg atattgcaaa gctcaaggga gatactctag attaccttgg 180  
tatecaaggt cttcactttg ctggaagtca gggagtgggc gtgattgcta tttgccaagc 240  
actccttatg gttgga 256

<210> 19512  
<211> 255

<212> DNA  
<213> Glycine max

<223> Clone ID: 700956785H1

<400> 19512

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gtgacgcgtt gtattttetta gccgcttctt caaccagctc tgtgttctct tcttctaccg 120  
tctccatttc catttccgcc tgcaacattc attcagagct aggttcagtt tccgccattg 180  
atcaatgctc cctactctct gtttccaggt tccaacctcg atcttgtatc tcccccttgc 240  
ctttcgtacg atcct 255

<210> 19513  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956786H1

<400> 19513

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tgtcgttggg agcgaacaag ttccccgaga gacagccgat tgggacggcg gcgcagagcc 120  
aagacgacgg caaggactac caggagccgg cgccggcgcc gctggttgac ccgacggagt 180  
ttacgtcatg gtcgttttac agagcagggg tagcagagtt tgtggccact tttctgtttc 240  
tctacatcac 250

<210> 19514  
<211> 239  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956791H1

<400> 19514

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taccggaag gactctcaga tcatagagga tgatttcaaa tttctcaagg agttgttttg 120  
ggcaaattggg gatggcttgc cttctgaact aatagataaa ttttcaacta ctgcaaggtc 180  
tatecttccc ctcttcagaa ccgacacaga gacctcatt gagcagttca gacgggtga 239

<210> 19515  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956793H1

<400> 19515

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 gataatgtat caggacttac tgctactcca tcaagacctg gtaatatctt tggtgagggg 120  
 ggacttgggt taccttcatt agaggggtgct gattctacaa gaccagttac atccacaaat 180  
 ggggccatca atgaggacac taaagttcac agatatcatg aagaagttgg acacttcaaa 240  
 agtg 244

<210> 19516  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956794H1

<400> 19516

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 tctgggtgca gagatgctag actctccagg ggaagttgct agcagagaat gaggttcttg 120  
 taaatgaatt tcttcacgag catcactata gtgttactga tgaatttgat gtctctgatc 180  
 acattcaaaa cagtgttgag gggaaaataa agcagacaat ggagaaggcc ttttgggatg 240  
 gtatca 246

<210> 19517  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956795H1

<400> 19517

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aaattccatc agacttgtgt ccataatctg tccctgtgat ttactttttg gagtcaatgg 180  
 aaatatagat caaggtggca actgtagttc ttggtgtttc tgctaaaaaa aaaaaaaaaag 240  
 gggggggcgg 249

<210> 19518  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956796H1  
 <400> 19518

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 ttccccactg gcagccattt ctgggtcccag agagtctctc atttatgtaa cctctgtcta 120  
 cacagggacc ggaatagaga agccagacta tttggcgaca gtggatgtgg atccaaactc 180  
 tccaacttat tccaaagtca tccataggct tcctgttctt tatttaggtg acgaattgca 240  
 tcacacaggc t 251

<210> 19519  
 <211> 90  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956801H1  
 <400> 19519

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 ccctcttcgt tgcaaaccga aacagaaccg 90

<210> 19520  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956804H1  
 <400> 19520

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ggagttcctg caggagcggc agctctacga cgacgaccac atcctgaagg cgaagatcga 180  
 ccttctcaac aacaccaaca tgggtgacta cgctatggac atccacaaga gcctctacca 240  
 caccgaggac gtcccgaacg ata 263

<210> 19521  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956805H1  
 <400> 19521

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 gcagaacctc atgctaccct accataacgg cgcctcctc aaaggaacca ttaccgttaa 120  
 cctcttatgg tacggcagct tcaccccaat ccaacgctcc ataatcctcg acttcattaa 180  
 ctcgttaagt tccaccgagg gggcaccact tcctccgta gcatcgtggg ggaagaccac 240  
 ggacaagtac aggggggggat 260

<210> 19522  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: 700956807H1  
 <400> 19522

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 ccaactaccac tggccacgag atctacaagc ttggaggcat tgacaagcgt gttattgaga 180  
 gatttgagaa ggaagctgct gagatgaaca agaggtcttt caagtatgcc tgggtgcttg 240  
 ataagcttaa ggctgagcgt gaaa 264

<210> 19523  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956808H1

<400> 19523

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 ccctccgttt tgggcagaat ccgaacatgg tatattcaat gccatcttaa gaggtcacat 180  
 tgattttaca agcgatccat ggccttcaat atccaatgca gcaaaggatc ttgtaaggaa 240  
 aatgttgact acagacccca aa 262

<210> 19524

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700956809H1

<400> 19524

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 tcttttggcg tgttggccac ccactgaaca catttgcact cacacataga aacacagaga 180  
 ggccattgggt tggtttcaga gatgggaagc atgcacatag aaaccccaga aacttttggct 240  
 gatggtagca aaaacttcga tg 262

<210> 19525

<211> 220

<212> DNA

<213> Glycine max

<223> Clone ID: 700956810H1

<400> 19525

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 gacctcatct gcgatgatca cggcatcgaa cacaccggac agtacagcgg cgactccgaa 180  
 ctccaatatc aacgcgtgaa tgtctactac aacgaggcca 220

<210> 19526



<211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956811H1  
  
 <400> 19526  
  
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 ttctccaaag gcaaaggtct ttgagatgga agtcttaaac ccgattgaag gcaagaccta 180  
 caagctccca gttggatata gatttgatcc aagtgatgaa attcttgctg gttactatct 240  
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<210> 19527  
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 <213> Glycine max  
  
 <223> unsure at all n locations  
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 tttttgatgg agagtgggtt aaggatgatg catatcctct ctataagcca gattcttgct 180  
 ctttgattga tgaacagttc aattgtatta ggaatctaan gcctgataag gattatcaga 240  
 aatatatgtg gaagccaaag 260

<210> 19528  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956813H1  
  
 <400> 19528  
  
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 gttcctgttt aatttaacct cgaaagga 88

<210> 19529  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956775H1

<400> 19529

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 ttcacagaa gcagatcttc tgaacaagt cagttttcta tattttccct ttcacccatg 180  
 ataatttgct ggctttgtta gaataactt aatggttggc atatttatcc tttccccccc 240  
 att 243

<210> 19530  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956718H1

<400> 19530

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 tccctgtgat ggacgccgat cctcctcaac ttgatgatca tttggaacct ttcagggttt 180  
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 agttctatga atc 253

<210> 19531  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956723H1

<400> 19531

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 actgaactct tccacattcc aagagtgaga acagaaactc gatacgtctc atttaccaga 180

002220" E T T E 560

aatgggttttt ggggaaaaca ctttgattct aaaacacttg agcagtggaa ccaaca 236

<210> 19532  
<211> 248  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956724H1

<400> 19532

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cgtcgatcat gtcggtgttc gaggacaccg taatcgacaa cgggtggcaag aatcaaaggg 180  
aggttggtgt ggaggactac atgggatgcg cctccgtgca tggggtgga tcctctatcg 240  
ccattttt 248

<210> 19533  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956726H1

<400> 19533

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ccctttgaga tatttgatgc ttggaaacgt agggaaagtt gcccaatcta ttctcagaac 120  
ccatggaaga agatatttgg aagcgagtag aaatgaggcc tttaactcag ttggacaaaa 180  
tattaagcac tgcaagatgt acatgcaata taagtttcca agtgaaggac gtagttcatt 240  
cttgtggca 249

<210> 19534  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956727H1

<400> 19534

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 gctgagaaga tgcagcagac accgcctatg attcctatga tgccttcggt cccacctacg 180  
 aacataacca ccgagcagat tcaaaaatac cttgatgaga acaagaagct gattctggca 240  
 atattggaca 250

<210> 19535  
 <211> 128  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956731H1

<400> 19535

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 agttccta 128

<210> 19536  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956733H1

<400> 19536

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 accatacttg ctggagattg gttcaagctt gaccaccgaa gactgagacg actcctagag 180  
 aatggtcata atctcccctt ccttgatggc cttcttatca atggacgtgg ttggaatgga 240  
 aacaccttca ctgttgat 258

<210> 19537  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956734H1

<400> 19537

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atgcaaggaa aaaaat 76

<210> 19538  
<211> 247  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956739H1  
  
<400> 19538

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tcactgggtcc gtttcattgt aatatttgct ttatgggtaca gaaccatggc tttggccaag 120  
ttgccaccaa acccttcacg agttccagca gttttagcgt ttggagattc catcgtggac 180  
ccaggcaaca accacaacat gaaaacattg atcaagtgcg acttcccacc ttatggaaag 240  
gattttc 247

<210> 19539  
<211> 246  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956740H1  
  
<400> 19539

gagataacta gaaacagtgt gatgaaaatg aaggtccttg ttttcttcgt tgctacaatt 60  
ttggtagcat ggcaatgccg tcggtacgat atgttccttc tccgaatgaa cactggctat 120  
gggtcccgtg ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180  
atcttttggt ttgagaccat tcctgaagag tgcgttgaag caacaaagga atacatccat 240  
ggcgaa 246

<210> 19540  
<211> 249  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956742H1  
  
<400> 19540

cttctcagtt ctctcgtag tattcttcca atctccgtcg atcaccacta acaccaccat 60  
 gtcgtgggtc ctccgatcca ccaagtcaaa actcctctct tctcatctt cactttctag 120  
 aaccttcccc tctctctcac gctccggccc cacacttgac ctccctcaga tcggagccat 180  
 ctctcccttc ccgatctct tccaccgcaa caccgcatcc atgcctttcg cgaaggaaaa 240  
 cgcttccgg 249

<210> 19541  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956744H1

<400> 19541

cggctcgaga aacgatccaa actctttttt catttgcagc atcaaatga gtggtagcaa 60  
 cgatggtagc ggcagtggag ctctagggtt ttgaagggtg ctagtgcagc tgccgctaca 120  
 gccgccgttg ccggcggttt atatgccatt ctttcatcct caacctctgc tagctctgag 180  
 atggaagtgc cgtttggcag cgcacggcgt gagagcaaag aacgtgacga tgggtggctcc 240  
 ggggtct 246

<210> 19542  
 <211> 221  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956745H1

<400> 19542

cgctcgccat gcttcgacac acaagagcat cagcggcacc ggcattccgg cgaggtggct 60  
 tcgctacggc tcttgctgct aggaagaagt ctgcgaacgg gtctgatgcg gagttcgctg 120  
 atcgtcgaca gcagttcgga atcggaagg agttgcctcc gatgagagac tttcctcggt 180  
 tcctgaagtg gactaagcat gtccagggtc agatgcggaa g 221

<210> 19543  
 <211> 253  
 <212> DNA  
 <213> Glycine max

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

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<223> Clone ID: 700956751H1

<400> 19546

ctttaacggtt cacaacggag gtagcatcca gcttcctcgg cctcgcttat cactatccca 60  
aacccttca 69

<210> 19547

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700956752H1

<400> 19547

cttcggttag accttgctgg ccgtgattta acagagtact tgggtgaaaat ccttaccgag 60  
agaggatact ccttcagcac ctctgccgac aaggcaattg tccgtgctgt gaaggagaaa 120  
ttgggatacg tggcccttga tttcgagcaa gacatggaga ctactaattg tagntctgca 180  
gtgganaagt ctaangaann gnctgatgga caggtcatta caataggatc tgagagattc 240  
cgttgt 246

<210> 19548

<211> 246

<212> DNA

<213> Glycine max

<223> Clone ID: 700956755H1

<400> 19548

acagaaatta agctagagct acatagtttt tttcttttct caccttcctt ctctcccttc 60  
agacaaggga cgaaaaatca gagagagaga gagagagaga gagagaaatt ccaaaactct 120  
gtcgtctcac agtcatctaa gttttccctt aggggctcta ggtaacatcg cctccttcgt 180  
gtgctttctg gcaccactac cgacatttta tagagtttgt aagaagaaat caaccgaagg 240  
gttcca 246

<210> 19549

<211> 245

<212> DNA



<213> Glycine max

<223> Clone ID: 700956758H1

<400> 19549

gtcggagact acgggttcga tccgcgtggg ctagggaagc ccgcgagta cctgcagttc 60  
gagctggact cgctggacca gaaccttgcg aagaacgtgg ctggggacat cattggaacc 120  
aggaccgagc tcgcgagcgt gaagtccacg ccgtttcagc cctacagcga ggtgtttggg 180  
ctccacaggt tccgtgagtg cgaactcatc catggaaggt gggccatgct cgccactctc 240  
ggagc 245

<210> 19550

<211> 66

<212> DNA

<213> Glycine max

<223> Clone ID: 700956762H1

<400> 19550

accaccgccg ccgcagccac cgtggatttc acccatcacc accactctca ccccgcaacc 60  
ccacca 66

<210> 19551

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700956763H1

<400> 19551

gtgctccact acgcctacgg ccacgtcaag aaagccatcg aggcctacgt ggtgcgcgcc 60  
ggaggaccgt tatcgaagtc cccctcccct tcccgcgcac ctccaacgac gacgtagtca 120  
ccgaattccg aaaagccctt gagcggggca agtcccagag caacagaatt cgcttagcgg 180  
ttatcgacca cgtgacttcc atgccagcgc tggatcatccc cgttaaggac ttggttaaaa 240  
tctgcagaga ggg 253

<210> 19552

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700956764H1

<400> 19552

caccttcctt ctcttctgtt accaatggct cctcatcaa actacatttc ttctcttttc 60  
ctcaccaccc ttttgatagc tcttcaaadc agtgcaagag acagccagtt cttcagcaaa 120  
gtcaccatt ttgacaaaaa cagtgtcaaa gagacagaac ttcccaaaa agaagcacca 180  
gaagtgaaca agccagagca acaaccacct ttcattccgg agactgaaaa cagctatggc 240  
ctatatgggc atcatg 256

<210> 19553

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700956717H1

<400> 19553

tggagactga gaaaacagaa ctatacaaaa tggaagatac actttctgcg ttgaggtctt 60  
tgatgctttc tcagtctcca ccgcttgatg ccttagttgt tccttctgaa gattatcacc 120  
ggagcgaata tgtgtccgca cgagacaagc gccgcgaatt cgtttccggc ttcactggaa 180  
gtgccggctt ggcaattata acaaagaatg aagcactgct gtggacggat ggacgatatt 240  
ttttgcaggc tgagcaag 258

<210> 19554

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700956765H1

<400> 19554

aaatgccctt gacaattctt ctctaaactc ggaagcaaaa caaaaagcca tagctatgag 60  
tggtgaagcg cgatcctgtg actactgtgg ccaactccaca gcacttcttt actgcagagc 120  
cgattcagcc aaactctgtt tctcgtgcga tcgcgaggtt cactccacca accagctctt 180  
ctcgaaacac acgcgcacgc tgctctgcga cgcattgcgat cattcccctg ccaccatact 240

ctgttccacc gacacctc

258

<210> 19555  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956771H1

<400> 19555

gaacatcttt gcttgctggg ccaactcctg ttgtggctga aatcaaccat gctattggag 60  
ctgaaggagt tctcagtgtg gaatgtaagg aagtgtgttc tcaatatgga gagttgatat 120  
gggatctctt ggtatcaggg gtgaagcctg attacatatg ttcacaagtt gggttatgtt 180  
cttccaaaag gcatgaatct aagagtgtcg gaattgaaat ggtgactgaa aaggagcagg 240  
gagagttgac ggc 253

<210> 19556  
<211> 221  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956772H1

<400> 19556

tggagaaatc aattgggatg accagatctt gttcaatggg atcatatttt atataggtta 60  
tatgttagtt ccagagagtt ctcacattaa cttgtggaga acagatgggtg tacttatcac 120  
tgctcttata catgctggac cagtggagtt tctttattac tggttacata gggcacttca 180  
tcaccacttc ctctattccc gctatcatto tcatcaccat t 221

<210> 19557  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956773H1

<400> 19557

cccagagtgg tgtagaagac aagatttccc agtcggtttc gttcaaggag gagaccaacg 60  
tggttggcga cctccccgag gcgcagaaga aagcccttga tgagctcaag acgcttggtc 120

095413.032200

aagaagcgct caacaacccat gagctaactg ctcccaagcc agaaccggag aagacgaaac 180  
cagcagcaga gaagaaggag gaagttgaag tgacagaagg gaagaaggaa gctgaagtca 240  
tagaaga 247

<210> 19558  
<211> 244  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956774H1  
  
<400> 19558

caataaacca cctccgcgcg agcaccttac ccagtgaacc ctaccgcacc gaaacaaaaac 60  
cctcgcaaac cctaaacctt atctcatagg aacatggacg gcgacgacga gacctcgggt 120  
ccgatgatcg acgaaatcta cgccaacggc ggtggcgctcg gcgacgacgg agacaagcgg 180  
agccgccgcg caatcatgag cggcgaccag ctcgacatcg aggcgtacgc ggcgctatac 240  
tcgg 244

<210> 19559  
<211> 77  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956679H1  
  
<400> 19559

cttcatcatg cacaagagct cttcagattc cacataaggt acgactacac tggacctctc 60  
acaggccttc ttcaggg 77

<210> 19560  
<211> 164  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956680H1  
  
<400> 19560

atgatcatga agttctcttt aaagttaaatt tattatcatc aaccatccaa ggatttaaga 60  
cgaaaggaac aagtacaacc ctcgaaagtg aattaggaag aaaacacaag gaaggttgat 120

gatcatgaag ttctcttttaa agttaaatta ttatcatttt gtgc

164

<210> 19561  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956681H1

<400> 19561

gcttacttga tccgtaggtc aaaggctctt cgtgccctta gagaactggc cattgcaaaa 60  
tctaaattaa aggaaatcag agcccagttc aataactttt cctaccgacg tcatgtagct 120  
tgtaatgcgg aggaacgcca gcgattttct gagaaaataa ttgtcttgct ccttactgtt 180  
gatgccattg agggagctga tattatggta agatctgccca agaggtcaat ggtggatgag 240  
ctggaagcaa tgcttgatgt ggtag 265

<210> 19562  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956682H1

<400> 19562

gctacggctg cgtaggataa catctaaca acctagcgca cgatagtctt ccttcaccca 60  
tgcttgagtg actctgcgcc actcgcccca aaccttggtt tctctccctc gtccacgtcc 120  
acgcttcctt gcctcgcta cctcattccc ctctatcacc ttcagcctcg ccgcccgc 180  
gtcgccgcca ttccaccgcc tgcaaacttt ttctctccgg cggcgctgcc gcctccatat 240  
ggcacgctat catgccccga ggt 263

<210> 19563  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956683H1

<400> 19563

cttttaaaat atacgagtgg catatttatc ttctaatttt ataaagtttc ccatgaaagt 60

atcttgtcat gcatcataac agtcctacaa ctgcttaaca agtggaaact atatgttcaa 120  
 ttaataacca gtcactaact ctatctgaaa tagtattatg ttgtatgtat atcatgggag 180  
 agcttagtgc ctttttcttt cttctaatat gtaatttgat attctagctt cccattgtat 240  
 tgcttcagaa gatcaggcta 260

<210> 19564  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956684H1  
 <400> 19564

cctcgagccg attcggtcgc agcataaacc cggcgggtgac gttcggactg tttttggcga 60  
 ggaaggtgtc gctgacaaga gctgttgggt acatgggtggc tcaggtgttg gggggccataa 120  
 gtgggggtggg gcttgtgaag gctttgcaga agagctacta caacaggtac aaaggtggcg 180  
 tgaacatgct cgctgatggg tacagcaaag gaaccggttt gggcgctgag attattggca 240  
 cctttattct tgtctac 257

<210> 19565  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956685H1  
 <400> 19565

ctctcactcg ctctttcagc ttcgactttg gtggaaacta aagactagtc aaaatgggtga 60  
 agttcacagc tgcagagctg cgtcgcatta tggactataa gcataatata cgtaatatgt 120  
 ctgtcattgc tcatgttgat cacggataat caaccctgac tgattctctt gtggctgctg 180  
 ctggtatcat tgctcaagaa gttgcagggt atgtccgtat gactgatacc cgtgcagatg 240  
 acgctgagcg tggat 256

<210> 19566  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956686H1

<400> 19566

agaaagttca tccaatctcc gaagcccttc accgcattgc aaccatgtcg agaagaaagg 60  
 ttagagagcc aaaggaagaa aacacgactc tgggccccagc tgtagagat ggcgaacatg 120  
 tctttggcgt cgctcgcatc tttgcctcct tcaatgatac cttcattcat gtcactgatc 180  
 tgtccgggag ggaaacactt gtccgcatca caggtggaat gaaggttaag gctgacagag 240  
 atgaatcgtc tccctatg 258

<210> 19567

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700956687H1

<400> 19567

ctagaatctt ctctttctct tctcctctcc gtaaccgtta ccgttaacgcc cgtcccgggt 60  
 tgaagttctg acccgactgt gattttttta aacggaaggg tggatgatct gatctaaact 120  
 aggggggtgaa atgttttaaag gtttggagta gcgtatgggc cgtgaggcta tgattatgta 180  
 tcatgtaact tgtaacatat ttcttgggtt gtttattaaa acattaaaat aaaatttagg 240  
 gtttatatac ttgtaa 256

<210> 19568

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700956689H1

<400> 19568

ccaaaaccga aattaacaaa actcattttt ccaatggggt gtgccagttt ttccttcctc 60  
 cttaaaatta ttccttcccc ctttcaatcc ctttgaccct ttctgcattt cagatctaag 120  
 accataagac aacacaaccc atttaggttc atcactctct acagaacaag gaactccaat 180  
 tgggtaccac tagattataa agatttcatt tttattattc ttcttattat taaatattta 240  
 aggggtggggg cgagag 256





cttcgattct tcgagttgaa cacagggcgt aagatacctt ccgttggttt gggaacgtgg 180  
 ctcgctgaac ctggcggttg tgctcgcgcc ttggccactg caataaacgt tggatatcgg 240  
 catatagat 249

<210> 19572  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956694H1  
 <400> 19572

gccgttcgtt cacagcgtag ctctgctctc gaagatggct cctcccagag gtggtggtgg 60  
 gttcaggggt ggtaggggtg acagaggtag aggaaggggt ggcggtggag gaagaggagg 120  
 agacaggggt acgccgttca aagctagagg cggaggccgt ggtggccgag gaggaggcag 180  
 ggggtggtggc cgtggcgggc gcagaggtgg aatgaaggga ggtagcaagg ttgtggttca 240  
 gccccatagg c 251

<210> 19573  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956695H1  
 <400> 19573

gtgaaagaaa ggcagcgatg gaagaagact tcgacatccc cggcggcgag gaaatggatc 60  
 tcggcgaaga cgaggtcggc gaggagaggg agatcggctc tggcggcctc aagaagaagc 120  
 tcctcaagga aggtcaaggc tgggaaaccc ccgaagtcgg tgacgaagtc caagttcatt 180  
 acacggggac tttgctcgac gggactaagt tcgattcgag ccgacgacagg gattctccct 240  
 tcagcttcac gct 253

<210> 19574  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956696H1

<400> 19574

attgggaagg atctttctgg agtttgtctc cctgtttatt ttaacgaacc tctgtcttca 60  
 ttgcaaaagt gttttgaaga cctagagtat tcatacctgg ttgatagagc attggagtgg 120  
 ggaaagcagg ggaatgactt gatgagaatt ctaaacattg cagcttttgc tgtgtctagc 180  
 tatgcgtaa ctgaaggtcg acaatgtaaa ccttttaatc ctttacttgg ggagacctac 240  
 gaagctgact atcca 255

<210> 19575

<211> 266

<212> DNA

<213> Glycine max

<223> Clone ID: 700956701H1

<400> 19575

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 ttttcgacac tgactggatg ggctcgtgagg tctacggtgg aactgctggg gaggacgcgt 120  
 acggaagga gtgcgcgtgg gatcgttagg gctgatggta aacgccgtcg tgttgggctt 180  
 catgtcgttg gcggtggagc cggtggggaa gatggttggg ggagtgaaga ggctttgggc 240  
 gattgtgaac ttattctcgc cgattg 266

<210> 19576

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: 700956702H1

<400> 19576

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 agaaatcacc aataactaata ataattattat tattattctc acgggtaaat acataaataa 120  
 aatgggtcgt gcatagtaat aggctaatag ggtagtattt tcttcagtgt gggtagttgg 180  
 aactccttaa gcagcttcag agtctgagaa gtgagaagcg gaagaagaag cgatgcgttt 240  
 ttgcccgtgt tttggat 257

<210> 19577



<211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956709H1  
  
 <400> 19580  
  
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 cagccccggt tggcacggat tttgcacgga acagaatctg aaaactgcag aaacttctca 120  
 atggcagcta tttcagctga agtatttggc aaactcaact gatgggccaaggagcatga 180  
 gtctgtcctg tttcattctg atgaacaaca aaaattcatg tcaatgagag gcacatccat 240  
 aaattctggg tcctc 255

<210> 19581  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956711H1  
  
 <400> 19581  
  
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 ccatttggtg aaatttggtt ctgtattgca ttgcgtttgc tgcaccatt aatggcaggc 120  
 gtttctctca agtgcggtga ctgcggtgct ctgctgagaa ccgtagaaga agcgcaagag 180  
 cacgtgaac tcacctcca ctccaacttc 210

<210> 19582  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956712H1  
  
 <400> 19582  
  
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 caacaccaac cagcctactt acgatgcgat gatatacaca gcaatcgggg ctctgaagga 180  
 gaaagatggt tcgagcaagc gagccatagg aaagtacatg gaacaagtgt ataaggacct 240

00331113 032200

tccaccca

248

<210> 19583  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956714H1

<400> 19583

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 aataggcagt gattcagaat ggtatgacat tcctgggatt gatgaacttt atgctcaagt 120  
 gatattctcaa gatctgtcag caagggtgact tatcctatca gatagttaaa actcattttt 180  
 tcaataaagg agggccgttt gtcattgtact gtaattttta tttattttatt tttatgatgt 240  
 gtttgaagg atcag 255

<210> 19584  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956678H1

<400> 19584

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 cttccacccc cagataaccc ctcttttgcg aaaaccatca ctgcttttac tttctcttac 180  
 ccttctcttc aaccttctat tcaacccac caacaccaa gtcaaccaac acacccta 240  
 gctcaacaca acactg 256

<210> 19585  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956715H1

<400> 19585

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agtgcattgt cagtcacttt ttgtggggat ggtgccacca gtgagggaga ttttcattgt 120  
gctatgaatt ttgcagcagt aatggaggcc cctgttgttt ttatctgtcg taataatgga 180  
tgggcaatca gtacacctgt ggaagaccaa tttcgaagtg atggtattgt agttaagggt 240  
aaagcttatg g 251

<210> 19586  
<211> 275  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956633H1

<400> 19586

cttgaagcc cttaagtccc tgtgttgagg atgcaagggt attcaagtgg aggaggcaca 60  
acttatctgt ctagactccc ttggttttga tctaagagtt tgttctggaa ctcagattca 120  
aacactgaga ttacattca agaacagggc cacttccgag tacagtgtcg agagacaact 180  
caacgatata ctatttccaa gaattcacc aaagcagcaa aaaatgaagc aaacacatca 240  
aatgaatgc taaaatcatc tgagtgtcat catac 275

<210> 19587  
<211> 271  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956634H1

<400> 19587

aacagcacia agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg 60  
cctccttgcc aggtgtgtcc actctctctt tctctctctt catccttctg ttgggttggt 120  
tgtggagtgt tgttttctgt tgtgcacgtg ttgtcatttt ttaccctcgc cacagatctg 180  
aagtgttcaa gtttgatttt tgtgcttctg gaagttaaaa tggccaaga aactttctca 240  
ttcacatctg aatcagtga cgagggggcac c 271

<210> 19588  
<211> 267  
<212> DNA  
<213> Glycine max

<223> .Clone ID: 700956635H1

<400> 19588

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 cgtcgatgat gaaaatgaaa ttgggtgaaaa cattactgct tctcctttgt gtgaaactct 120  
 tctgttatgc agtgattgggt gctcctcaaa ctgtcctgc taacaatgag gataaatgcg 180  
 gcgattcaga tgaatggaaa ggggagtttt tccctgacat tcccaaaatt aaatatgagg 240  
 gtccgtcaag taagaatgtg ctttcat 267

<210> 19589

<211> 269

<212> DNA

<213> Glycine max

<223> Clone ID: 700956636H1

<400> 19589

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 gcggtggccg cgtccgacgc cgacgacatc ctgatccgtc aggtgggtgcc agatgttggc 120  
 gaagcgacag aggaggacaa cctgctgaac gccgagcacc acttcgacgac cttcaaggcc 180  
 aagttcgcca agacctacgc caccaaggag gagcacgac atcgcttcag cgtcttcaag 240  
 tccaacctcc gcagagccag gctgcacgc 269

<210> 19590

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: 700956637H1

<400> 19590

cccagtcata aatgttcaca tatggtttga cagacaactg aagaacacat atgatcacct 60  
 tctcttttagc agaagtcccc ttctgagtgt atatgctgac atgtcagtaa cttgcaagga 120  
 atattatagc ccaaaccagt caatgttaga gttgggtttt gcaccagccg aagaatggat 180  
 ttcacgtagt gacgatgata ttattcaagc cacgatgact gagcttgcca aactctttcc 240  
 tgatgaaatt tctgcagacc aaagcaa 267

<210> 19591  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956639H1

<400> 19591

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 tcaaggaggt gattttacac aaggaaatgg aatgggtgga gaatcaattt acggagagaa 120  
 gtttgctgat gagaacttca agttaagca tactggacca ggacttctat caatggcaaa 180  
 tgctggctct aataccaatg gttcacaatt tttcattaca actgtgacaa ctagctgggt 240  
 ggacggaagg catgttggtt ttggtg 266

<210> 19592  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956640H1

<400> 19592

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 aagaggctcc caaagttgca ggtgcatggc caatacttgg tcacctacca ctattgagtg 180  
 gttcagagac acctgatagg gttttgggtg ctttggtga taagtatgga cccatattca 240  
 ccatcaacta tgggtgtcaaa aa 262

<210> 19593  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956641H1

<400> 19593

tggaatgtc atcaatgtc aaccttgggg ttctggaggt gacaaccgag aactgtggaa 60  
 tggtagaaaa accggagaaa tcaagcctga tgtaaaagga gctgagcctg agaaagggtc 120



agaaagggttc tggaaactgc tgagtaagcc tttggaaggc taccaaggag gtaacaatga 180  
 agtgattgag cgtagaaacc cattagcctt agctcatttc gccaatcacc ctccaaaagg 240  
 ggtgcaacca aatgtcatga tttg 264

<210> 19594  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956644H1

<400> 19594

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 tcttctgcat tctgtgcctt tccacggagg ccagtggaag ttccattcgg cagaaactac 120  
 gttccactt gggcttttga tcacatcaaa tacatcagtg gaggttctga gattcaactt 180  
 catcttgaca agtacactgg tactggcttc cagtccatag ggtcatactt gtttggtcac 240  
 ttcagcatga acat 254

<210> 19595  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700956648H1

<400> 19595

tcggagttcg gcacgaggca tctttacat ttcagtcta aaaccctatt cttcttcgct 60  
 cattcatcag cactgccatc agccccaacc tccccacaag gtcacaggcc acanagaggt 120  
 gtaccaccat gtcggacgat gaccgggagg agaaggagtt ggatctctct tctgcagaag 180  
 ttgtaaccaa atacaaaacc gcggctgcga tcgttaacaa ggccttgaag ctagttattt 240  
 cagaatgtaa accagaggcg aagattgtgg atatttgtg 279

<210> 19596  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956651H1

<400> 19596  
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 caaatcatgg ctagctcact gcttgatcatg aagggttaca gctgcatggg tgcgggtgttg 120  
 atgggttagtt ttggacacat aattcccttg gcagaagctg aaattccatg tggcaggggtg 180  
 caaatcacag tggctccatg cataggggtac ctaaggggtc ctgggtggagg tgtccctgca 240  
 gcatgctgca atgggggttag gagc 264

<210> 19597  
 <211> 85  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956654H1

<400> 19597  
 atagatcgaa ttccgatatg gcgaggaaca cagctgacct cgtaacgcag ctcaacgttg 60  
 ctcactcactt tccacacaac atacg 85

<210> 19598  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956655H1

<400> 19598  
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 tgcttttatt tatgtgcca atgggatagg aactatcttg ggaatgatac agttgatatt 120  
 atacttctac ttccgagagta aatctagaga gagctccaga gaacctctga tagtatcata 180  
 tgcacgatga gttctgctga aaaggctgaa gaatcagagt caggaacgac cttttgctgc 240  
 tggttgctgg ctgagactgg a 261

<210> 19599  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956656H1



<210> 19602  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956663H1

<400> 19602

attaaattca acatctctct aattctctca ttctctctct acttctcaaa gatgcacgca 60  
 tagttctata accctaatacg ggtatgtaga aagagagctt tgtagcacgt gcttaaggta 120  
 tgttttaaac attgcttggt tagttgggtc cttttgatgt catgggtggca ttgtgatgca 180  
 aaatgtgtgt gagctcatc tgagaaggag ctcatctgct aagtccattt gaagaggatg 240  
 tatggcaggg catcatc 257

<210> 19603  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956665H1

<400> 19603

gtttgttcca tttcttgctt cttaatttct tgatcatgtc acttgctggt aaaatcagca 60  
 ttgaaattgg ggtgcatgca agcgctgcaa agtgggtcaa cctctttgca acgcaactcc 120  
 atcatgttca aaaccttacc gaaagagtgc atgaaaccaa gctacatcat ggtgatgact 180  
 ggcatcacia cgaatcgatc aaacactgga cttgtaccat agatggtaag gttacaacat 240  
 atcacgagag taacgaatcc gttgatg 267

<210> 19604  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956666H1

<400> 19604

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 ttggaaacca atgctattcc tgtgacatgg tattctaaca aaggtgtgga caaagagtct 120  
 tatggcgaga ttgtctcggc gcttgtaag gatgttcgag cgctgaattc ttcagcaata 180

002220"0941.FFF

ggaacaaatt catcttattt ctatgggaag caggttgga gggcggcgag gttggtgttg 240  
 atagcgggaag aagtgtcgta tccta 265

<210> 19605  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956669H1

<400> 19605

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 ttgtcaacta ggattttctt catcatgtcc cttgtgtgcc tggctctcgg tccaatggca 120  
 caaggggaaa tgacatgtgg ccaggttgtg agcaacctga ccccatgcat ctcttatgtg 180  
 gtgtatggtg gaaccaatgt tcctgaacag tgctgcaatg ggataagaaa tctctatggc 240  
 atggctcaga ccaaaccaga c 261

<210> 19606  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956671H1

<400> 19606

accggcgctg ccggcttcgt cggtccac gtctccctct cgtaaagac acgaggagac 60  
 ggcgtcgtcg gactcgacaa cttcaacgac tactacgac cgtctctgaa aaaagcccgc 120  
 aagtcctcc tcgccaagca tgacgtcttc atcgtcgatg gcgacctcaa cgacgccaag 180  
 ctcttggaag agctcttcga tgtggctcgt ttcacccacg tgatgcacct cgcgggcgag 240  
 gccgggggttc gctacgcca 259

<210> 19607  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956672H1

<400> 19607

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atggcaccaa gcaaggagga agaacgcaaa ttgaaggaac ataaagatga ttctccaacc 120  
aaacttggtc ctgctgagaa atttttgaag gcagtgttg atgtacctt cgcatttaaa 180  
agggtggaag caatgcttta catagccaat tttactccg aagtggagta tc 232

<210> 19608  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956674H1

<400> 19608

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aactttcaag atgcaaactt ttgttaagac actcactggt aagacaatca cccttgaggt 120  
ggagagtcca gataccatag ataatgtaaa gtccaagatt caagacaagg aagggatccc 180  
accagaccag caacgtctca tttttgctgg caagcagctt gaggatggac gtacacttgc 240  
tgattacaac attc 254

<210> 19609  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956677H1

<400> 19609

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atttgactca tgccttaga gggagacatg gcccaaccatc taaaatcat tcatgggtcca 120  
ccaggctgag aatcaccaaaa ggaacagcga ggggcctggc ctatctccac gaatgcagtc 180  
caaaaaaatt cgtccatggc gatatcaagc cctccaacat tcttcttgac aacgacttcc 240  
aaacctacat at 252

<210> 19610  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956632H1

<400> 19610

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 aacaacattg accccatcga catggacttg gatcagtcctc tcagggctat ccctgttctc 120  
 gtaaatgccaa actaattcaa catcatctgt atgttggcat gccatcccat gtaccttttt 180  
 ctgagaaaca gcaaacagaa gcttgattct ttggtttgaa tgtttctcgt atgtgctagc 240  
 tttgatccag cttgtttctt ccagc 265

<210> 19611

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: 700956603H1

<400> 19611

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 cttctgatct actaattctc aaggtattca aaattgggtg gttttcgatt gaactgtgat 120  
 gtccaagcca ctgctaggca tagcggaaga ggaagggtcaa agcaatgtca ctttgttggt 180  
 ttcttctca gccaccatgg aaagtgtgtg cctgaatagc tcaaaactga aagagcgcaa 240  
 ctacatgggg ttatctgatt gttcatctgt ggac 274

<210> 19612

<211> 271

<212> DNA

<213> Glycine max

<223> Clone ID: 700956605H1

<400> 19612

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 aaacttgagg gggggtttgg tttcagttaa ccagctctct gtcaccattg gaattatgct 120  
 ggcatatctg ctggggattt ttgttgaatg gagaatcctt gcaattatag gaattttacc 180  
 ctgtacaata ttgatacctg gcctatTTTT cttcccgag tcccctagat ggctggcaaa 240  
 aatgggaatg acagaagaat ttgaaacttc c 271

<210> 19613  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956606H1

<400> 19613

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 gtgtaaaggc cattagaagc cttttagaaa ttttcaaatt gagttgggtg atagtgttga 180  
 aggggggtgaa atttggagcc cagtttggtta cttcatttga aaggatcatag tttgaaccct 240  
 ctttttctgg agatttacct gggaaaaag 268

<210> 19614  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956607H1

<400> 19614

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 ttcagaagct agctggacag tcttacctgg tgtccaggct tagccccaac tttttctcta 120  
 ggaattattc tgcaactggg tcttacctca atggcggaat gcactcgctt ggggttggtg 180  
 ttgtgtcacc tgtatctcca gttactgtgc atgctccagc agagaaagga gtgctgtgat 240  
 ttctagtgga ttttctgatg ggtggagt 268

<210> 19615  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956608H1

<400> 19615

ccttgtgaag ttgaaggac acctcacca cccgaaacac catccattct cagccaccac 60  
 cctctctctc aaacccttag tttccattct caagagtga actcttccaa ctatctatac 120





<400> 19618  
gaatacggct ctcggtattc agctcaggat cagggcatat ccatggcaga accaccaaag 60  
ggggatgagg aggacggcgg agctgctttc gttctccaat ccaaaggatga atgggtggcat 120  
gcgggggtttc acttaacgac cgcaattgtt ggacccacga tactaaccct gccatacgcg 180  
ttcaggggat tgaggtgggg acttggtttt atgtgcttga cggatgatggg gatcgtcacc 240  
ttctactctt acttcctcat gtccaaagtg ctcgatca 278

<210> 19619  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956612H1

<400> 19619  
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tcctcaggca gacctatgga agattggcgc agaaggcttt gctctgatag acaagttcta 120  
tggtccatca agggggaaca gtgccaatga tgcattccat gggccaaggg gagaacattg 180  
ttgggtgggt tataatgtgt ccaatgatgt gatggaagaa tctgctgtag acccatgaaa 240  
ttctaagctt tttggcttat gca 263

<210> 19620  
<211> 261  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700956613H1

<400> 19620  
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cccagttcgc gttctcgtca ctggagccgc agggcaaatt ggatattgctc ttgtccctat 120  
gattgctagg ggagtgatgc tgggtcctga ccagcccgtg atcctccaca tgcttgacat 180  
tcctccagca gtagagttct agantgggg taaaatggaa ttggtggatg ctgcattccc 240  
tcttcttaaa ggtgttggtg c 261

<210> 19621  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956614H1  
  
 <400> 19621  
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 tgttggtggtt ggagatccga attttgatta tcgaatcgca aaattctgaa tcaatcaatc 120  
 aatcaatcag taatcagagc catcaacgac tgcaatggtc tgcgagaagt gtgagaagaa 180  
 attatcgaag gtgatagtac cagacaagtg gaaagaaggg gccagcaata ctaccgaggg 240  
 tgggtggccgc aagatcaacg aga 263

<210> 19622  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956615H1  
  
 <400> 19622  
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 ccgcccggagc cgactccagc atctcgctcc tcagccagtc cgagaagcct gacgtcactt 120  
 ataatgacat tggaggatgt gatatacaga aacaggaaat ccgtgaggct gtggagctac 180  
 cccttacaca tcatgaacta tacaacaaaa ttggtattga tcttccccgt ggtgtttttac 240  
 tgtatggacc ccctggcact ggca 264

<210> 19623  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: 700956616H1  
  
 <400> 19623  
 attcaaaagt ttttgaaatg ttgtcacccc ttcttctatt tctatgccta actcttcctt 60  
 tggttttgggt gtccttcttc aaataccgta aaaccttcaa gaatccacca cttccaccag 120



<400> 19626  
caaaaccttg agaaaactga gcatggcgga gaggggcgga ggaaatcgcc ggagagaacc 60  
gcttctggtg tcgccggagg aagaggctgc aaaagcatcg tggaggctta acgtcaaaga 120  
gtttcgtttg ccaagccaaa cgaatgatca tcaaaatcaa cgatccttca ctttccatgg 180  
ccttcttcgt aaaccagga agcaacgcaa agtggcagaa tattacaaga atcaggagag 240  
actccttgaa ggatttaatg agatggag 268

<210> 19627  
<211> 269  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956621H1

<400> 19627  
cttaaatttc taataaaaaa ccactggaag atgtaattcg tgagattttt tgattgctgg 60  
aatgattttc aagaaaaggc cacaacccaa gtcttgattg ttttggacaa gcatgagaac 120  
cgcgatactt atgtggtagc tttccgagga acggaaccct ttgatgcaga tgcattggtgc 180  
actgaccttg acatctcatg gtacgggatt cccggcattg gagaaatgca tggaggcttc 240  
atgatagcct tagggctaca gaaaaatgt 269

<210> 19628  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956622H1

<400> 19628  
agaatatgta tgctcagttg ttgcctcttg ctttgccgc accaccaatg cctggaatgg 60  
gaggaggctt tgcgcctccc cctccaatgg gtgcattggg gatgcctcca atgcctcctt 120  
ttggaatgcc acccatgggc agctactgac atataagtgc tcggcaatga actcaagtgt 180  
ataccgagag cagcgtagca acttgggagt tttcaaacaat tttcttctgg ggtttttaatg 240  
cagtattctt tccttgcttc 260

<210> 19629  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956623H1

<400> 19629

aaaaaaatgg gttcttctct gtggacctgt ctgattttgt tatcacttgc ttctgcttcc 60  
 ttcgccgcca acacaagaga aacaattgat gtgccatttg gcagaaacta tgtgcctacc 120  
 tgggcctttg atcacatcaa atacctcaat ggtggttctg agattcagct tcattcttgat 180  
 aaatacacag gtactggctt ccaatcaaaa gggtcctact tgtttggtca cttcagcatg 240  
 tacataaaat tggttgctgg tgat 264

<210> 19630  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956624H1

<400> 19630

cgtttcgttc aactttcaac gccagttcac actctctgct tcgcgtgtac caacaagtgc 60  
 aagttcgaat caatggccag cgctcagctc acagcaatag cgtcacgat ctctacggcg 120  
 tcgtttgaag ggcttcgacc ttccgctgtt cagtttgctt ccacgggcag aattagaatt 180  
 ggcaatctct cccaaaggct cttccggggc ttggttgctca aagccgccac cgttgttgcc 240  
 cccaaataca ctgcgataaa gcctc 265

<210> 19631  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956626H1

<400> 19631

ggaacttact catcttgaag tgaatggatg ccacaatatt ggaactttgg ggctagaatc 60  
 tgttggaaaa tcctgccaac atctctctga gttagcattg ctttactgcc aaagaattgg 120  
 tgatgctggt cttgtccagg ttggacaggg atgcaaattc ttgcaagcac ttcaattggt 180



<210> 19635  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956631H1  
  
 <400> 19635  
  
 caacaacaga gaacacgagt ttgcagccat aaaaaaaccc cacacattca gacatcggtg 60  
 tgttgtgttaa tgctatctcc gatggctctc tctgcgcata tttgccgttt ccccgccaca 120  
 cgcgctgaca cttctttgcc ggagagtctc accagaatcc ggtgccggaa acctctctcc 180  
 gtccgatgct ccggcgattc cacttccggc tctgtgggtt cggagttcga tccgaagggtg 240  
 tttcggaaga accttactcg gag 263

<210> 19636  
 <211> 133  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956554H1  
  
 <400> 19636  
  
 aagaatgcca caaatttctc cataattatg ggaacttcca ttatcgacgc cctgaacgtt 60  
 cgcggtggaag gttccggaga caagtagatt gtcctggccc acggcttcgg cacggaccaa 120  
 tccgagtggc agc 133

<210> 19637  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956556H1  
  
 <400> 19637  
  
 ggttcaagct gctcgtgatg aaatgcaatg gggtagaggag ggcccacctc cattgctggt 60  
 aaaaatagct ccagatttgt cagaagaaga ccttgaagat attgctgcag tcgccttggc 120  
 tcttcacttg gatggactga ttatatcgaa cacaccatt tcaagaccag atcctaccag 180  
 ttggaatcca ttggcttcag aaactgggtg cttgagtcgg aagcctctct tcaatctcgc 240  
 caccaacatc ttgca 255



<210> 19638  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956558H1

<400> 19638

aattctgctc gatggatgtt agacttgggt ttgcatcatc taattctgat actgctggtg 60  
 cttatgctac ctggctgcta gaatacccat cagcacttac atctcttgat catatcacia 120  
 actatacaag agggaaaaga attgctgtgt ttatggatta tgatggaact ctttcaccga 180  
 ttgtggataa tcctgactgt gctttcatgt ccgacaatat gcgtgctgct gttaagaagg 240  
 tggcacaata ttttccaacg gcaataatta g 271

<210> 19639  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956560H1

<400> 19639

cggcacagag gggaagaaga agatggtgtc cttgaagctt cagaagcgac tcgccgctag 60  
 cgtacaaaag tgccgcaagg gcatcgtctg gcttgatcca aatgaagtca atgaaatctc 120  
 catggccaat tctcgacaaa acataaggaa gttgggtaag gatgggttta ttatcaggaa 180  
 gccgactaag attcactctc gctcccgtgc tcgtcgaatg aaggaggcca agagaaaggg 240  
 gcgtcact 248

<210> 19640  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956562H1

<400> 19640

gcggcgctccg agccgctcgc atcgagcca actacggcga taccatcaca aactgcgaac 60  
 agccacacta cacaca 76



ttttagagca tatccatggc agattatttc ccatca

216

<210> 19644  
<211> 248  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956567H1

<400> 19644

tcagaagtaa ctactggagt tacaagaatt ggggactatg aacttcgcga tcttgtattg 60  
ctagataata atagcattgg tgatgtaata cgtgtagaaa gtgacgcatt tcaggttctt 120  
aaggggattc ctgacagacc tgaagttgtg cttatgaaat taagagagat caaatgcaag 180  
atagatatgg tgataagtgt gcaggatagg ttttaagtcta cagtatcgtc aaaggctgtt 240  
gtgcggat 248

<210> 19645  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956568H1

<400> 19645

ggccatttgt attgcggggg ctttgtataa ttgtacaatt atctacttgt aagaagttca 60  
gattcggggc acaacatttg taatgcagaa ttaggtcatt aacattgtaa atcttctggc 120  
gatgattgga atatcaatgt gaagacgcta tatgacttct gctatgacaa tatcattgtg 180  
gttgtcaagg tatttttgaa gaaatatcgt ggatttacia agaattctggt taggcttcta 240  
caattcttta a 251

<210> 19646  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956569H1

<400> 19646

ctcaaatact caactcatta gcccttatct tgcccttatt cctcttcacg attctgatcc 60

taaaactagg gagaaaactc aagagaactg aattgtctct aaacataccc cgaggaccat 120  
 ggaaactgcc tattatagga aatttacacc agcttggttac atcgacacca caccgaaaat 180  
 taagagacct ggccaaaata tacggacca tgatgcaatt gcaaattggg gagatcttca 240  
 caatcgttgt ttcc 254

<210> 19647  
 <211> 81  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956571H1  
 <400> 19647

gtgcagccta tacttgagtt tctatctagc cataacttgt agtttacttc aaacttctaa 60  
 gcaacatggt ggaccacaca a 81

<210> 19648  
 <211> 78  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956572H1  
 <400> 19648

gggatttcca tggaagtctc atgagaagca gctctagtgg cgctcgctcc ggcgctagtg 60  
 gagatgcttc aattccct 78

<210> 19649  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956573H1  
 <400> 19649

aaaggttggg aggttgatct agatgctgtt gaagctcttg ctgatcagaa cactgttgct 60  
 ttggtgatta taaatcctgg gaatccttgt gggaaatgtgt acagttacca tcatttggag 120  
 aagattgctg aaactgcaaa acgggttgga acaattgtga ttgctgatga agtttatggc 180  
 catcttgcat ttgcgggcac gacttttgtg ccaatgggag tttttggctc tattgttcct 240

gttctgactc ttgg

254

<210> 19650  
<211> 241  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956574H1

<400> 19650

atcgcgtttg ggagaagaaa cagcaaaatc gctgtgaaaa tgagcggaac ggtgaagaaa 60  
gtagcgatg tagcattcaa ggtgggaagg aacatcgatt gggatggaat ggcgaagtgc 120  
tggtctccga tgaggctcgc aaggagttct ccaatctccg tcgcgctttc gacgatgtta 180  
actcccaaat ccaaaccaag tttagccagg aacctgagcc cattgattgg gattactata 240  
g 241

<210> 19651  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956575H1

<400> 19651

gtaaatcaaa cgaattcggt gattccatat cgattcgcat ttgcgtacac ccctgacccc 60  
ttgatttctc tcagttccgt tctgcatcat agagtatgtc cagccactat cttcgattct 120  
tcgagttgaa cacaggcgtc aagatacctt ccgttggttt gggaacgtgg ctcgctgaac 180  
ctggcgttgt tgctcgcgcc ttggccactg caataaacgt tggatatcgg catatagatt 240  
gtgcgc 246

<210> 19652  
<211> 248  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956578H1

<400> 19652

accattttgt gtttctttct gtgtgcaaga aaggtaaaag ctttcacaca ccaagactcg 60

tagccatggc tgettgtca agaatttctc ttttgcctc tttctttctc tttggattct 120  
 ccgcagctaa ggaactattg gttggaggca aaatagatgc ttggtagatt ccattctctg 180  
 aatcagattc cctcaatcaa tgggctgaaa ggtctcgttt cagagtcgac gatcatcttg 240  
 tgtggaaa 248

<210> 19653  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956579H1

<400> 19653

atcatcactc aacattaag ataagcttat gcctcagcca tcgtttctac tcgctagagc 60  
 gtaacattgg gcactcagag aagcaaacc agttgtacca tcgttgcgat ctttctagca 120  
 ttttgttgta ttgtatcttc ttcgaaagca cagcttgaga gtctccaaca tgcgcccata 180  
 gctgatgggt ctctaagctt cttggtggtt agagatgggg tagaaaagggt gcttat 236

<210> 19654  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956581H1

<400> 19654

gcgtttcgga agcagacaca gatggctcgt acgaagcaaa ccgctcgtaa gtccacagga 60  
 ggaaaggctc ctaggaagca gcttgcaacc aaggctgcac gtaagtctgc accaactact 120  
 ggtggtgtga agaagcccca ccgttatcgt cctgggtaccg ttgctcttcg tgagattagg 180  
 aaataccaga agagtaccga gcttttgatc cggaagctcc cttccagag gctgggtcgt 240  
 gaaattgct 249

<210> 19655  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956582H1



<210> 19658  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956586H1  
  
 <400> 19658  
  
 caggaattta ctgcataaaa ttctgattcg ataatcttta cctctttgtg ttgaattcct 60  
 atctgaagga ttgatttggg gattggacct cattgatcgc ctgagatctt ctccggagct 120  
 catgattgtt tcgggtcttg atcatagaat ggttgatctt catgattctg aggattggtc 180  
 ccttttttagg ctcaatgccc tttgggaagc ccattatcgc catgattctc tgctgggtgtt 240  
 ctcaactg 248

<210> 19659  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956588H1  
  
 <400> 19659  
  
 gtggagggga acggatctgc tgggtgggac tagataaagt gaagcaagct gacaagacta 60  
 agggaagatt ggatggtgga aatggaatcg gcagctgaaa accctaatta cccggcggtg 120  
 gactacaagc gaccttccat cttgtcattt cctcggaggc ccgccctcag agttacatcc 180  
 gagttcgata gtgaaagcgc agtcttcttc cataagattt cctgcaagtt gttggacagc 240  
 cttgccaaagt tca 253

<210> 19660  
 <211> 71  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956553H1  
  
 <400> 19660  
  
 ttaaaattac actaaaacaa tgtgcaaaag acaaggcgat ttgcgtaatt gtcaaccacc 60  
 acacaacata c 71

002220-03200



<210> 19661  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956589H1

<400> 19661

ctttctctct cttgatcaac acccaccacg cgttagagag agaaaaccac gagagatcgg 60  
 aaaatgggta cgcttcagtc ttggagaaga gcctacggtg ccatcaagga caccaccaa 120  
 gtgggtctgg cccatgtcaa tagcgattac gcggatttgg acgttgccat tgtcaaagcc 180  
 acgaaccacg tcgagtgtcc ccccaaagag aggcacctca gaaagattct gtttgccacg 240  
 tctgctgtg 249

<210> 19662  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956590H1

<400> 19662

atttatcaca aaatttaata atatcacacc ttccaacaac ccctgcaaac ataattcttg 60  
 gctccagagg aagaagaaga tgaacgtgga tctggaatca ttggcagagg caacttccgg 120  
 ggccatagga tcaactgatca gcaccactat tctctacccc cttgacacct gcaagaccaa 180  
 gtaccaggct gaggcacgtt cctcaggctg aacaaaatac aggaatctca ctgat 235

<210> 19663  
 <211> 77  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956592H1

<400> 19663

ctttttctga ggccctagct ttgaaaagcc aaggagagta tgatatcgcg tgtgagcatg 60  
 atcactcatg ctgtgtc 77

<210> 19664  
 <211> 78

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956593H1  
 <400> 19664  
 ctgcccagtt tcttctccat ctaccacttg gctttcacgt ttaccttcgc aacgcattctt 60  
 ctctctgaac cctaattt 78

<210> 19665  
 <211> 52  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956594H1  
 <400> 19665  
 gcgagagaga gagagttagg gtcgctttaa ggcacagaag ctttaaattgc ga 52

<210> 19666  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956518H1  
 <400> 19666  
 aaatagttga gttgacggaa gttgaaaatt ttggttgagc aagagccttc tctttgttcc 60  
 gttccgcgac catgtcttat gagacatgcc cttccgtaaa gaacttcctt cttttggatt 120  
 ctgatgggaa acgtgtcgca gtcaaatact tctctgaaga ctgggcaacg aatagtgcc 180  
 aggaaaattt tgagaaagtt gtcttcaaca agactcagaa gaccaatgcc cgcacagaag 240  
 cggaatatgc 250

<210> 19667  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956519H1  
 <400> 19667  
 gggagagtgc agttccagca ggaggtggaa gtgctgagtt gcataaggca tccaaacatg 60

gttcttctgc tgggtgctg tccagagtat atgtgtctgg tgtacgagta catggccaat 120  
 ggaagcttgg acgactgtct gttcccaaga ggaaatcac ggccacctct cccatggcag 180  
 ctgaggttcc aaatcgctgc agagatagcc acaggtctcc ttttcttca tcagactaaa 240  
 ccggagccac tgggtccac 258

<210> 19668  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956520H1  
 <400> 19668

atcagagctg attttcgctg ctgttaccgg tcaccggaga ttctatccta aatcgttttc 60  
 cgatgacgat aaaaactggt aaagtcagta acgtttcctt gggagcaact gagcaagaca 120  
 ttaaggagtt cttttcattt tctggtgata ttgcatatgt tgaactacgg agccatgatg 180  
 aacgatctca aatagcttat attaccttca aggattcaca gggagctgag actgcactac 240  
 tgctttcagg ggcaac 256

<210> 19669  
 <211> 222  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956521H1  
 <400> 19669

attataagaa cttctatccc aaggataaga aggaagttcc gaagaggaat gacaagaaac 60  
 atgagtacaa aggtagaaca tcaaactt ttgtgcacac cctatTTTTT tctaaattag 120  
 gaagctttca tggcaaattg ttggaatatg gtggtggcta ctggtgtaat gagtaaactg 180  
 gaggtttgag catgcctaga gttaccattt tccacacaac at 222

<210> 19670  
 <211> 76  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956523H1







<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956534H1

<400> 19679

ctttgttcac tcttcttctc atgcggttag ggtattagcg cacgtcttct agatttaagg 60  
aagatgggta aggaaaaggt tcacatcagt attgtgggtca ttggccatgt cgactctggg 120  
aaatccacta ccactgggtca cctgatttac aagcttggag gcattgacaa gcgtgttatt 180  
gagaggtttg agaaggaagc tgctgagatg aacaagaggt ctttcaagta tgcttgggtg 240  
ctggacaaac tta 253

<210> 19680  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956535H1

<400> 19680

ccatgaagca gctatctctt tatcggacga tttcaagcct atgcttccca atctaaagat 60  
agatacttgt tccttaatta ttgttaacct gaattgggtt cattcaatct cttcctaata 120  
tcatgtagtt caggttgtct tttcaagggtg tgaattacca ttctcagttg ataattctga 180  
gaatttaaag gtggtgatag gcatgaaga gacagctgct tcatgcgaag atttcaagcc 240  
tatgcttccc aatc 254

<210> 19681  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956540H1

<400> 19681

cgcataactc gcccaacgga atccaggggc ttcttcagta ctttaaccta gtggagggat 60  
gcctaacgat gataaaatca caccaacaga agaaaaactt cacgtacgat tggataatcc 120  
gaacacgtgt tgacgggtac tggaacgcac cgttgggttc cgtaaaacttc gttccgggaa 180







<212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956547H1  
 <400> 19687  
 atcacttcgc tctccatctc tccggatccc actttgcgaa cacaattctt cgattcattc 60  
 agatcataat ttcggtcgct aagcaaatga tcccataatcg ataaccgat ttcaatctca 120  
 atc 123

<210> 19688  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956548H1  
 <400> 19688  
 tcggacttcg gcttcggctc gagctccggc gtcgatctca gagtccggcc actcctctcg 60  
 ccggcgatcc cttatacctc cgctctccgt tcgagtcctt tccgattcga ttcggtccca 120  
 gccttctgcy accacgaatc ccgtctacgt ttacatgttc atagctatgc tgcttgagaga 180  
 ttctggtgta ggcaagtcat gtcttctcct gaggtttgct gatgattcat accttgacag 240  
 ctatatcagt accattggag tggac 265

<210> 19689  
 <211> 208  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956549H1  
 <400> 19689  
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 atctaataaa gggaaagcct ccaaagataa agacttcaga tgggaattgc ttggatgcag 120  
 tgtttgtgca gtgatttttag atttcttcaa cgttttcaaa agctagtcca attcaacaat 180  
 ctgtttttat tttagatttc ttcaacgt 208

<210> 19690  
 <211> 241

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956550H1  
 <400> 19690  
 cacaaacccg tccctcacac tctccaaacc ctacgaggcac tacacactag ttctatcgct 60  
 atctcccaa gatgtcgagc gccgatcccg agcacagaga agaggaggag gcacccgccg 120  
 ttggcgacga cgaggacacc ggagctcacg tcgctccaat cgtcaagctc gatgaggttg 180  
 ctgtcaccac cggcgaggag gacgacgatg caatcctgga tctcaaactc acgctttacc 240  
 g 241

<210> 19691  
 <211> 77  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956551H1  
 <400> 19691  
 gtccaaagca gtttagaggca atcaattggg aagagaagtg catgttgccg tactccaacc 60  
 gcgcaatttt ccacaca 77

<210> 19692  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956552H1  
 <400> 19692  
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 tggcatggat aatactgtaa aaatatggtc tatgaaggag ttctggacat atgtagaaaag 180  
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<210> 19693  
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<212> DNA  
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 tttctccaaa ttttcaattt taataatagc taactaaatg accagaagat gagtttagga 180  
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 ttgtgtttca acaacttca 259

<210> 19694  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956478H1  
  
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 cctctcaagg aactcctctt cattcagagt tgtggccagt ggtggcaaga agatcaagac 180  
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<210> 19695  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956480H1  
  
 <400> 19695  
  
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 cgcggaataat tgggtgcgaga cttcaagcat ttgaatctcg attttcagct cattactgac 180  
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257

<210> 19696  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956482H1

<400> 19696

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gatggcttcc ccacttgggt ctctctgct gatcgcaagc tcttggccaa cgatcctggt 180  
ttgccccatg ctactgttgg caaggatggg agtgggtcaat ttcatactgt tttggacgct 240  
attaactcct accccaagca tca 263

<210> 19697  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956483H1

<400> 19697

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ttatataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa actaaaaaaaa 120  
caaaaaaag aggggggccc cccctttttt ggctctcccc ccccggtttt ttttttcggg 180  
gggttttttg gggggggcca ttttttcccc taggggggtt tttttatgtc tgggggtctt 240  
cctgggcatt attttttt 258

<210> 19698  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956484H1

<400> 19698

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atgaacactg gctatgggtgc ccgtactccg gaggtgaaat gcgcaagttg gaggcttgct 180  
gtggaagcac acaacatctt tggtcttgag accattcctg aagagtgcgt tgaagcaaca 240  
aaggaatata tccatggcga 260

<210> 19699  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956485H1

<400> 19699

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aagatagaaa ctctctgagg tggtttgtga aagtgtttac ttctagaaca tatttgctg 180  
ctcttgagg ggacacacct gcatctttgt ctagtggact ggatgaatta atgcgccatg 240  
cttctcatt gcgtggccc 259

<210> 19700  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956486H1

<400> 19700

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agcagaatct tgtttcatgg gcaacacct tggtcagga cccaagaga tatectgaaa 180  
tggcagatcc acttcttaat aagaacttcc cagaaaaaga tctgtctcaa gttgttgcaa 240  
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<210> 19701  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956489H1

<400> 19701

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tatgggcatg ttttgctgat tccgcgcatt ttcgagtgtt tgcctcaaag gattgaccgt 180  
gagagcttcc tccttgcaact tcacatggca gtggaagctg ataatccata ttttcgattg 240  
ggttaca 247

<210> 19702

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700956490H1

<400> 19702

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tggtctctc tccttctctt ttggccttcc caataatcca caaattccaa aacgcaggca 120  
agtcagtgat aacaatctgt tcaaagaaaa atgcaaaatc aagggtggtc actctctgct 180  
ctgcacctgt gcaagagcag gaggttcgtg atattacttt gagagagaga agtgtttcgg 240  
ttgtcctatt 250

<210> 19703

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700956491H1

<400> 19703

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ctaaaagaaa gatctttatg gagcagaagc ttcgacaatg ttgttggtact cctcgtaagg 180  
ttcagcttca ccgttttagc aaggattaag gttgtcttcg gaatcgggtca ccacatgcct 240  
tgtctgtct 249

<210> 19704  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956493H1

<400> 19704

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tggggaagag caagggaatg agaattgcat gccaaaccac cagcattcct gctgatagag 180  
tccttgacat gggcaaaaga cagctcatga atctgcttct tcttggtgcc atttcactcc 240  
cctctgctgg a 251

<210> 19705  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956494H1

<400> 19705

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aagccacaag gttctgcggc atcaaggctt cctcaaaga cgttgagtc gctgttggtg 180  
ccactgctgc gagcgagtt ctagctagca acgccatggc cattgaagtg ttactgggca 240  
ctgatgacgg gtc 253

<210> 19706  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956495H1

<400> 19706

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<210> 19712  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956506H1

<400> 19712

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 tcccatccct atgccaacta ttttgcatag gattttcctt ctttacaacc tcgtacatac 180  
 attcctcctc tgtgtggtcc ccaagatggt gcgtcgctgc ctcatgcctt cttggtacca 240  
 aat 243

<210> 19713  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956508H1

<400> 19713

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 agttcaatac aaatatgtcg aagaaaattt gaggaacaag agtgaactgc ttctcaaadc 180  
 caaccagtt cacaagacgg ttccagtgtg tattcacaat gagaagccca tagcagagtc 240  
 tcttgtgaca gttgaataca t 261

<210> 19714  
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 <213> Glycine max

<223> Clone ID: 700956509H1

<400> 19714

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 aagaaattat cctacatatg actcttaaaa taattattac aaaagtcaat aattttcaat 180

<210> 19715  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956510H1

<400> 19715

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acgacgccgt tcttggtcca cccctaact tctccatggt cgaggactgc attttccgat 120  
ccggcctccc caacccttcc aatttcccct tctccaaaac cctaaacctt cgttccatca 180  
tatacctgtg ccctgagcct tatccggaag aaaatctgga cttccttcgt tcgcagaata 240  
ttcgcctttt tcaatttgga at 262

<210> 19716  
<211> 261  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956511H1

<400> 19716

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gagcagatgc aagatccatc ttcaaaccct aattccaatc caaatcccaa tcctcacaac 120  
gccaatgccg catcccagtt accgcgtccg ccgcaggaca cggcgtccac cgccgtcgcc 180  
ggcgccttct cgtcctctct attcgcgcgc tccggcggac ctcaccaccg gcgagcccac 240  
tcggagatga gtttccggct g 261

<210> 19717  
<211> 235  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956512H1

<400> 19717

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tggtatgag aatgaaaagg gcttccatta ggtccatttt gaatgaagtg gggatcttta 180  
 ttctgaagaa cattagagca gtgacatttt ctgcttcaat ttctaccgtg ttctg 235

<210> 19718  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956513H1

<400> 19718

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<210> 19719  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956515H1

<400> 19719

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ctttccgatt cc 72

<210> 19720  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956475H1

<400> 19720

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gttcttctac ttgcaggatt cttacacagc acagttatct tcctctcata aagttaccgc 120

gggataagtg cagccttctt ccccatcgcc acttctggat atccagcaaa cgtattgtga 180

ccccacaagg gatcatttct ggttcgctgg agataaatga tgggaaaata atatctgttc 240

gttgagggac a 251

<210> 19721  
 <211> 251

<212> DNA  
 <213> Glycine max

<223> Clone ID: 700956441H1

<400> 19721

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 aaggaaccgc tcactcacca aggatgaaat tgatgcttac tggaaatcaa agaagaagat 180  
 agaggagagc accttagagc tatttccacc ttgtcagaga ctattcaggc tagcaaaagc 240  
 acagaacctg a 251

<210> 19722  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956442H1

<400> 19722

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<210> 19723  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956443H1

<400> 19723

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 actaacgcac aacccaaagt tcaggaccac tgttactttc ctttcttcac tcaaaaactgt 180  
 ctcttgcagt tccccacaac atgaacatcg ccaatctcca aggaagaaga atgagaacaa 240  
 gttagcaaag ttg 253

<210> 19724  
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<212> DNA  
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 <223> Clone ID: 700956444H1  
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 aatgttgcgg cattggtttc tcgtaccggt agggagttgc aacgttatag aaaaggtcgt 180  
 cgccaagttg tgggatgcat accgatacag actttaagat tgtggacgag aagtactttc 240  
 ccttgagact gttggt 256

<210> 19725  
 <211> 147  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956445H1  
 <400> 19725

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 cccgaccggt ttggactccg ataccaggag aaccgagttc aacatcttgt ctggacactt 120  
 ccatgagact tgccctcacg tacagtg 147

<210> 19726  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956446H1  
 <400> 19726

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 tgctggtgct ggatacgctt cattcagagg tntagacagt ggtggcaaca agagcaatac 180  
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 caggagaaga 250

<210> 19727  
 <211> 80  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956448H1  
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 cgaagaagaa gaagacgctc 80

<210> 19728  
 <211> 256  
 <212> DNA  
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 <223> Clone ID: 700956449H1  
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 tgctcagatt ggtgggtgaac ttatggattt tatagttgtt cttcgtgata tgaaagctgt 180  
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 gcctgttggg agagtg 256

<210> 19729  
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 <223> Clone ID: 700956450H1  
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 catataaaaa caaatgtttg tatcttttcc atgatttatg caagattttt ggaaacaaat 240  
 taatggaagt atcagat 257



<210> 19730  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956451H1

<400> 19730

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tgagttatct gctggtctaa cttaaccata ctgtctatct tgactcctga gattgctagt 180  
gagtcattgg gcatagacat ttatatagct catctccaat gtttgagggt gaacctgacc 240  
agaactggaa tcatat 256

<210> 19731  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956452H1

<400> 19731

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tatcttcaat gttatgatgt atgtctcccc tcttacaatt atggcaaagg ttataaaaac 180  
taagagtgtg aaatacatgc cattctggct ctctctggct aacttcctta atgggtgcgtg 240  
ttggacaaca tatgc 255

<210> 19732  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956453H1

<400> 19732

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ctttttcatt gggactttcc acaagctctt gaagatgagt atggaggatt ccgtagtcct 120  
aaagtagtgg cggattttcg tggtacgca aacttctgct tcaagacctt tggagacaga 180

gtcaaattatt gggtcacttt gaatgaaccc ttatcattta gtctcaatgg ctacaatgg 240  
ggcacctttg cac 253

<210> 19733  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956454H1  
  
<400> 19733

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aagagtctta ccaatgactg ggaagagcat ttggctgtca agcacttctc tgttgagggt 180  
cagttggagt ttaaggctat actctttgtt cccaagaggg caccttttga cctctttgac 240  
acaaggaaga ag 252

<210> 19734  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956455H1  
  
<400> 19734

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gtcacagtac ttgaccttgc agcttctgga accaacaatga agaaaattga agatgttgat 180  
actttctcag agtattctgc gcctttgttg cagctaattg ccacaattcc ctcaaattgag 240  
aagttagttc t 251

<210> 19735  
<211> 259  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956457H1  
  
<400> 19735

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 gtcctattga gtatgggcat gttttgctga ttccgcgcac tttcgagtgt ttgcctcaaa 180  
 ggattgaccg tgagagcttc ctccttgcaac ttcacatggc agtggaagct gataatccat 240  
 attttcgatt gggttacaa 259

<210> 19736  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956458H1

<400> 19736

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 agcaagcaat gagaaacggt caaacatatg gaacttctcg tcaagggtgag cttgcaggat 180  
 cacaaggggc atattctcaa ttccgttctg gcaccgttcc tgtagggttt tatacattgc 240  
 agagggagaa c 251

<210> 19737  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956459H1

<400> 19737

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 cacactcaca tggatcggcg cccgagaaaag agagcgagat tgggctggga catccctgag 180  
 gtccccaagg ctcaggtagg attgttttgt ggacaagatg ttgggactat ttcaagcttt 240  
 gctccttcaa g 251

<210> 19738  
 <211> 248

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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: 700956460H1

<400>      19738

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tagttgtctc tattgtgtga tcttgctttg ctcttgtgaa gtacattggg gcggtggacg   180
agtcgatgcc ggctatggca atgaagaagt cggttaatgc tgagaatgct tatatgggta   240
ccatggga                                           248

<210>      19739
<211>      252
<212>      DNA
<213>      Glycine max

<223>      Clone ID: 700956462H1

<400>      19739

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gctaccccaa aaaaggctaa cgccatcaag gatgatgggt cactcacctc agaaaaggct   120
aacgctagca aggatgatgg tgcagtcacg atgaagaata atagttaatc atggcttata   180
tttaaccact ttaagagttc tacctttggt gtctttcccc agaacatgta tagtatgggt   240
aaattttgaa cc                                           252

<210>      19740
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<212>      DNA
<213>      Glycine max

<223>      Clone ID: 700956463H1

<400>      19740

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ggaatt                                           66

<210>      19741

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 gccttgtcat tctgttagta tccaccactg ttgaagatca gaagaactac tacaccccag 180  
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 atggaagctc tccaccctc 259

<210> 19745  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956470H1

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 aataagaagg gagccgccac caaggctagg aaacccgcgc gcaaggggaa ggcagcgaaa 180  
 gaccctaaca agccaaagag gcctccaagt gctttcttcg ttttcatgga ggagttcagg 240  
 aaggtattca acaaaga 257

<210> 19746  
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 <212> DNA  
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<223> Clone ID: 700956471H1

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 agccgtttcc ccttggcgag gagttaccag taccactcct cggtttcgct caaaacgcag 180  
 cgtcaaattg gaaggtccat gcgcactata cgctccaatt tcttccaaga cgacaacagt 240  
 tctagctgct ccttc 255

<210> 19747



tgactgatt tcgacgtcgc ctatttccat tcctacgctc accttggcat ccaccaagag 240  
 atgatcaagg atcgt 255

<210> 19750  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956405H1

<400> 19750

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 tgggaagatc caccgaccacg attcctcgtc ttcgctcgat tccgacaacg aaaaaaccag 180  
 cgccactgat tccttcaagt ctaatgtttt caggcttttc ggcagagaaa agcccattca 240  
 tcatgttctt ggcggg 256

<210> 19751  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956407H1

<400> 19751

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 aaagcccgag gaggtagccc ccaagaaaga cgacggaccc atccctgtcg ttacaaaact 180  
 cgacttgcac tgcgagggat gcgtcaagaa gatcaaacgc acctgtcgcc acttcgaagg 240  
 tctggaaacc gtta 254

<210> 19752  
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 <213> Glycine max

<223> Clone ID: 700956409H1

<400> 19752



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gggctgaaag agaagatcga ggagaaaata gagggatgatc atcatcatca caaggatgag 180  
gacacaagtg tccctgttga gaaagttgag gttgttgaaa cagcacatgc tgaggaaaag 240  
aaggggttcc tcgacaaga 259

<210> 19753  
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<213> Glycine max

<223> Clone ID: 700956410H1

<400> 19753

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ttccccatcc ttggctggca aggccgtgaa gctgggcca tcagcccccg aagtcgggag 120  
ggtcagcatg aggaagaccg tcaccaagca ggctcctcc ggatgcccac ggtacggccc 180  
agaccgcgtc aagtacttgg gccattctc tggcgagccc ccgtcctacc tcaactggcga 240  
gttcccaggt gacta 255

<210> 19754  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956411H1

<400> 19754

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aatgaatttg aagacttgcc attttcttcg gaagttctag ctgacacttg gcacgtgcaa 180  
atgggtcact ctaagtgggt tgatcttgct ctcattgttg ccatgattgt tctgtatcga 240  
gttctattct tggcc 255

<210> 19755  
<211> 256  
<212> DNA



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283

<210> 19758  
 <211> 61  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956417H1  
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<210> 19759  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956418H1  
 <400> 19759

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 gtgcgcggtc atgtggtttt gggatattcta cagggcaaag caagacggtc ctgttgtatt 180  
 gggctggagg catccttggg agggatcatca cgatgatcat ggcaagggcc attaagcatt 240  
 ccttaggcat ga 252

<210> 19760  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956419H1  
 <400> 19760

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 ttcatatcat aataactaac aataacttct cattcagagg ggtagacta gaactttata 180  
 acatgcatca tcattgccat ctctcttata aacttatgca ttgctagtat tattggactg 240

cttataccaa tacaattg

258

<210> 19761  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956420H1

<400> 19761

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gttagctagc cactattcaa attcaaacca aagccattaa aaagggtgtg gggaaattta 180  
ccataggttg ttgagtttag atggacagtt catccaactt tgagaaactc tgattgggg 240  
acaaccttca 250

<210> 19762  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956421H1

<400> 19762

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tcgaggccgc gtgcgcatcg acattgtcga cggcttcctc ctgcaccgcg gtttccaaat 180  
cttcatcacc gcctaccggt tagcgcaaaa gtcctcaat tattaatccc tcaagctcca 240  
gaagttctac tccggcg 257

<210> 19763  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956422H1

<400> 19763

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<223> Clone ID: 700956429H1

<400> 19766

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<210> 19767

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700956430H1

<400> 19767

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cgaagtggat cgaacgatgt actccacttt ctgcagcacc gccaaactccc tctctcatct 180  
ctacaccac gccatgaacc aacaaaaact ctcatctcag gccggtgaac gacacgctct 240  
tgagaaattg tatca 255

<210> 19768

<211> 246

<212> DNA

<213> Glycine max

<223> Clone ID: 700956432H1

<400> 19768

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gcgtttggcc ttcaggtttt gaagtccgaa ggagataata gaagagattc ctgacatcgt 120  
aatcattttt ggtgtcgtaa ggcgaagggt tgcttctgga agtcgtctc cttggttact 180  
atgtcagtca gctcagaaaa tccggtctgg atccatcagt ttgctgctat agtgtcttac 240  
attgtg 246

<210> 19769

<211> 250

<212> DNA

<213> Glycine max







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ccaccacttc ctattccttc aggtaacttc acccttggtt atccctctct tgtttcttgt 240  
aatgaagtta gcacctctcg 260

<210> 19775  
<211> 219  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956361H1  
<400> 19775

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caagctgcct ctctcatttc taccagcagt tctggagggtg ggcaggcttc tctcagcact 180  
ccaacatata ctggtttgat ccgccttctt tccacacaa 219

<210> 19776  
<211> 217  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956362H1  
<400> 19776

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caatgttcat catatttaat taatccgtgt tctaaagga atattcagat agttcaactg 120  
catattttat tagtcacttc ctgcgtcttc ttcagtcatt ctctaaattt ccggcatggg 180  
atcttttttg tgcccccttt acactcttcc acacaac 217

<210> 19777  
<211> 236  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956363H1  
<400> 19777

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ttgtagatca ctactgtgac tacgacaagc tcaaattcaa aacctttctc agaaaaatgt 120  
 tctgggaatt cgggtctgcc tgtgtggcca acccttccca gcaccggaga agctccggcg 180  
 acggcaaaaa gacgaacatg gagaacaaca aggcgtggct gcttgcgag tctggg 236

<210> 19778  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956364H1

<400> 19778

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 gaatattttt acagggtaat taccttagtg gaggattcc aagtgaaata ggaaaccttt 180  
 cacagcttca aaatttggat atatcaagca attccctcag tgggaatatt cctgcatca 239

<210> 19779  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956367H1

<400> 19779

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 aacactagca atgaattgca tggttgcata aacgatgtgt tggcaatgaa ggacacgctg 180  
 gagaagcgct ttgggtttga tcctctaac attgagcttc tcaactgatgc 230

<210> 19780  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956368H1

<400> 19780

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gcttcacgc tgagaaattg agcgcctctc taatgctccg tttggcatgg cactctgctg 180  
gaacttacga cgtgagctcg aagaccggtg gtcccttcgg aa 222

<210> 19784  
<211> 229  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956376H1

<400> 19784

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agcctttgtc actcaaagag ctgggggctaa aaacaagcgt tgggtgccaat aaacttcaag 180  
ttattaaagc agctgcacgc attgatacag aggtagtctt tgaaaccac 229

<210> 19785  
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<213> Glycine max

<223> Clone ID: 700956377H1

<400> 19785

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aacggtgttt ttgaagttct tgctacaaat ggagatactc atcttgaggg tgaggatttt 120  
gatcaaagaa taatggagta cttcattaaa ttgatcaaga aaaagcatgg aaaggatatt 180  
agcaaggaca acagagcact tggaaagctg aggagagagg ctgagcgtgc 230

<210> 19786  
<211> 234  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956380H1

<400> 19786

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tgtcggtggg ctgcgttggg ccactgacga ccaagctctc gagagagcct tctctcagta 120  
 cggcgaaatc gttgaaacga agattatcaa cgatcgtag actggaagat ccaggggttt 180  
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<210> 19787  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956382H1  
 <400> 19787

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 atcaaactcg ggcgaaatgg caaaaacaat gggaaagggt actacattta tgaaaaggct 120  
 ggcaagccaa aacctgatcc ttcataacta ccaatcattg aggagtctag aagactttgc 180  
 aatattatgc ccaatggaaa gcctatatct gttactgacc aagagatcgt 230

<210> 19788  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956383H1  
 <400> 19788

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 ttataacaat ggagatttcc cccaagagta tgcgttcttt gagggaaacta cccatgccgt 180  
 ccaagatggt tccaatgttg aactaatgc atttgatgga aactatgaca c 231

<210> 19789  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956384H1  
 <400> 19789

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acactaccca taatatgggc gaaaacaaca acccaagggc ttttggttct tctatgtttc 120  
tatgtatgct tgtgttgatg atttgaaca agattgttgt tgttggtcca caagccgagg 180  
ctcgagcatt ttttgttttt ggtgattcgc tagttgacaa tggcaacaat a 231

<210> 19790  
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<223> Clone ID: 700956385H1  
  
<400> 19790

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cccaagatgg aatactgaag tacatgctga agatgatgga ggtttgcaag gcacaatggc 120  
ttgtttatgg gataattcct gagaagggga agccagtgc cggagcatca gataatcttc 180  
gcgaatggcg gaaggataaa gtcagggttg atcgaaatgg tcctgctgcc at 232

<210> 19791  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956386H1  
  
<400> 19791

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ctttaaccct ctttgctggg cttggcaaga ttactttgga gacatacatt tcccagtttc 180  
atatttggtt aaggtctaac atgccaaacg gacagcccaa gtggcttctt tc 232

<210> 19792  
<211> 235  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700956387H1  
  
<400> 19792

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gacctagatg cggccatcaa gagcctccac ggcctctggt tgggatctgc tgatgataat 180  
tctcaacctg ctccacaacc tgaccaccct aacctcgctc togac 225

<210> 19796  
<211> 224  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956391H1

<400> 19796

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caccttccca actccaacct tgtgaagcat tgcaatcttg tgcctcgttc aggtaaagcg 180  
atggtttag ctttgcaacc tactcaagac gctacaataa tgag 224

<210> 19797  
<211> 226  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956392H1

<400> 19797

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gcaacttaaa atttcattgt taaggggtga tttagaattt cacagctgag ttaggtgatc 180  
aactgtctca ctttgattgt tatagtaaatt tagtaattctt aattct 226

<210> 19798  
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<213> Glycine max

<223> Clone ID: 700956393H1

<400> 19798

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catttctctc tgattgaaac gccacacca tttgagagga tcttttttct agagaagcca 180  
acccaaagtg tgttttcatg gggttgttgt gatcttgaga aactagagag t 231

<210> 19799  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956394H1

<400> 19799

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acgttatggg gtgacaaggc tagagcaaga tcaggctgct cttgagtctc acaagcgagc 180  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956360H1

<400> 19800

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gcagaaacac ccctcaaaac agaagaaaaa ccccaaacac aaaccctaaa aacccccacc 180  
accaccactc aaaaagctat aaccaaacca agcccatcat catccaccac c 231

<210> 19801  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956395H1

<400> 19801

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 ccacaacaag aaccgcttgc cctacactct ctctgttaat cattttgctg attggacttg 180  
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<210> 19802  
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 <213> Glycine max

<223> Clone ID: 700956396H1

<400> 19802

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 gaagccaaga taaaaaact ttgatgaact atatctttac tggtactatg ttgctgggac 180  
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<210> 19803  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956320H1

<400> 19803

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 tgtttgctct ctcacctttt ttggtgcaga tcttgaactt gagctgcatt ttcatagaaa 180  
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<210> 19804  
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<223> Clone ID: 700956323H1

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 ttggacacca ctggaagccc aagaggccca ttagacatga agatgatgca atcaccaaga 180  
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<210> 19805  
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<223> Clone ID: 700956324H1

<400> 19805

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 atcggaggat ttggtgaagc aggaattgga ggaattgcag aaacaattgg ggaagaagct 180  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956326H1

<400> 19806

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 ggtacatcaa gccttctact gatcaaccat ccataaaaag ttgtaatttt gatgatgcca 180  
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<210> 19807  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956328H1

<400> 19807

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gacagttaca gttctttgaa gtgcagaagc acaaggattg aatatataag gaggggtaca 180  
ccagatgctg gctttgctct ttttgaatcc gagtctctga agtggccagg tttt 234

<210> 19808  
<211> 226  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956329H1

<400> 19808

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tctactcgga taaccgtagt aattctagag ctaatacgtg caacaaaccc cgacttctgg 180  
aagggatgca tttattagat aaaagggtcaa cacaggctct gcctgt 226

<210> 19809  
<211> 239  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956330H1

<400> 19809

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aagatcggcg atggctgcct ccaaggatcg cgagaacttc gtctacatcg ccaagctcgc 180  
cgaacaggcc gagcgatacg aagagatggt ggaatcaatg aagaacgtta cgaatctcg 239

<210> 19810  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956331H1

<400> 19810

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aacctagtcc aagaaaaaat aacagcttta gaaagactaa tagttaccgt 230

<210> 19820  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956345H1

<400> 19820

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tgggcaagtc tgtagttgag aagctacttt ggatggcaat tgtgtgcttg gtgctgggtg 120  
taatttccat tactcccaag gctcaagcag cagtgcacatg caaccaggtg gtgagcaacc 180  
tcaccccatg cattttcttat gtgctcaatg gtggcaaaac cgtgcctggc cctt 234

<210> 19821  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956347H1

<400> 19821

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aattggttaa ggaatggcct ttaacaagta aactagaccc gcaaatatat ggtccacagg 180  
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<210> 19822  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956348H1

<400> 19822

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002220"CTFE560





ataggaaatc acttatgaag gatatgagaa gggtaatgcc aacccatgtg ttgagtgcag 180  
 ctgggtgttac tggaaggcct aatgttgatt ggtgtgaatc acacaagggtt gaa 233

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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956355H1

<400> 19826

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 taggcaatat catctccttt ggcttgttct tttcacctgc tccaactttc tatggaatcg 180  
 taaagaagaa gacggtggag gagttcaagc cagatcctta catagcaacg gtgtt 235

<210> 19827  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956356H1

<400> 19827

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 ccggactctt gctgactaca acatccctca tcgagtacac tcttcacctt gtactccgtc 180  
 ttcgtggtgg gattttaaag tctgagaacg ctct 214

<210> 19828  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956319H1

<400> 19828

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tctcagttcg tttgagagag aaaaaatggc agaggggtctc gttctccgcg gaaccatgcg 180  
cgccccacacc gacgtcgtga cggcgattgc cactcccatc gacaactccg acatgatc 238

<210> 19829  
<211> 231  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956357H1

<400> 19829

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ttcgtggctc gggggacgat ggtgtagcc gactacaccg agttcactgg gaacttcctt 120  
gcaattgcag ctcaagtgcct ccagaaacta cctcttcca ataacaagtt cacctacaat 180  
tgcgaccacc acaccttcaa ttttctcgtc gaagacgggt acgcttactg t 231

<210> 19830  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956278H1

<400> 19830

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ttgagctgag ttgtataact gcaatgggtg tttcgtgggt gaagctgttt tttgctgctc 180  
ttgctgggat tctactctca acccaacata 210

<210> 19831  
<211> 124  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956279H1

<400> 19831

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gaaagctctg tcaacgaacg tcttcatttt gggaagattg gatatggatg cgatcattac 120

124

ggttgaactc caagaacctc ataaaacctg gactctctct ggcatcactc gctctctctg 60  
tctctctctc tctcta 76

gttttcatga cataaactat catcaactgt tgctttccat tttggctata attccacaaa	60
atgtgccatt ctttgcaagt gtaatattac tagcatttcc atatatcagt ccatggcctc	120
cttaatgctc aatggagctc atcaaaatcc aaacctcatt agtggcatag ctccaaatgg	180
ccttaacttt cacaacaagt gtttattcca aaagggtgtg ctgtctcatg gtaacaagtt	240
aa	242

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aggataagga aggtattcca cggatcagc aacgtcttgt cttcgccgga aagcagttgg 60
aagacggcag aaccctcgcc gattacaata ttcaaaagga atcgacgctt catctggtgc 120
ttcgtctccg cggaggggatg cagatcttcg tgaagacgct caccggaaaa acgattactc 180
tggaggtgga gagttctgat acgatcgata acgtgaaggc aaagattcag gataaggagg 240
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ggattccacc gga

253

<210> 19835  
<211> 180  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956285H1

<400> 19835

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tcttcacttc actttttcttc tctgttctgt ggagtattta atcatttcca cacaacatac 180

<210> 19836  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956286H1

<400> 19836

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cctttc 66

<210> 19837  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956287H1

<400> 19837

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aatgcatgca aagaacagct caccactggt ttgcaaaaac tggaccacag cttcccttct 120

aaaaccacct caaacatgga acctgaaaca ccctcagaat ggtgggggaa atctctcaat 180

gttcttagtc ttgatttctt tcaaagagtt ttgtctgcag tgaagtcaaa gggattaaaa 240

caa 243

<210> 19838

002260" E.T.E.560

<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956288H1

<400> 19838

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tttgtaaadc agatcaagaa ctagtttata ccagcaatgt cacttttact tcgccagaag 120  
aacaggaagc ttatatacgt agctggcttg aggaaaggat tggtttcaag gcagacttca 180  
aaatttcttt ttatccccggg aagttttcga aagcaagacg gagtataata cctgctggag 240  
ata 243

<210> 19839  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956289H1

<400> 19839

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tgtcgtctaa gttctccact ccacacag 88

<210> 19840  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956291H1

<400> 19840

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gacctcaact tctccccgaa gctggacgac ggcacccgac cgcacttctc caccataatc 180  
cccaacctcg ccatcaaaac gacgatcctc cactgggtgcg acaattcccg cacccaaccc 240  
ccgctc 246

<210> 19841

<211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956292H1

<400> 19841

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 ccaacaactc ccatcaacaa tgttttttca aaatttcgaa tttctagaaa ggatcatgag 180  
 gaatctcaat agatttggcg ttgtgctgtt tcaaacaatt ctgctgtttc ttttgttctc 240  
 tgac 244

<210> 19842  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700956293H1

<400> 19842

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 aaaaagaaaa gttgttgttt tcttttgttc tttgggggtg ttggtttaa acccggggtt 180  
 gaagcattgc agacatcatg gctattcaag gagttcgcca ctctctttct catgcccgtt 240  
 gtgt 244

<210> 19843  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956294H1

<400> 19843

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 gcaattaatg gttatgggtcc agttcacacc aaagcaagat ggttcaatga tataatcaat 120  
 gtccattcc aatcaaaagc atttgttgcg ggttgtgtgg catatttctt ggacaacaca 180

ctacacaaga aggaagctgc tattaggaaa gatagaggaa aacattggtg ggacaagtac 240  
cggt 244

<210> 19844  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956295H1

<400> 19844

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gattgggctc cccctgcccc aatgcagcaa gctggttatg gctatgtgca acctggagca 120  
tactctggctc catcacccca gtataacatg cctcagtaac catatgcagg ctatcctgcc 180  
cagcaacctg gtggatattc caccaattgg gaccagtcta ctgcaccacc tccaccagca 240  
gtcta 245

<210> 19845  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956296H1

<400> 19845

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agcttaaadc aaagaggagc tacaggttca ttgtgttcaa aattgaagaa cagcaagtgg 180  
tggttgagaa attaggggac cccacggaaa gttatgagga ctttagtggc cagttttcca 240  
gctaatag 247

<210> 19846  
<211> 240  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956301H1

<400> 19846



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gcatatgaat gccatggctc agactaccag aagttccctc tctcaatgaa aactggggtt 120  
ggtgggcaat acagcaatga ggtggcatgt gccagttgga ggcttggcgt ggaagcaaac 180  
aacgtagtca agtggcaaac tgctcctgca gcttgccggag agtacatagc tgactacgtt 240

<210> 19847  
<211> 249  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956302H1  
<400> 19847

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atcatacagc ttctgctcta gtgatcgaaa ccatgggtggc tttgactgta gcattgaaat 120  
tgtatcacat aaagggcata tactacaatc aatttatctc atttaataca atgctgcagc 180  
catacttctc gcctattggg ccttcggca gaaggcattt gcagaatggg ttttgtacac 240  
atccagtgg 249

<210> 19848  
<211> 240  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956303H1  
<400> 19848

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ctcacaagct cttgttccaa gaccgttgct gacaccctag gacccttttc tcccagagtt 120  
tgcttctgtg tttcttatag acccgaattc tgctccacc ttcgttccaa aaatgagaaa 180  
aagagttgca attcattgct cctgaaactg gttcgggaaca aggtgtgtgt ttaccgggtt 240

<210> 19849  
<211> 238  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956304H1

<400> 19849

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 caagcactgc aaacactcaa ggactcgggt ctatctcacc ttgtactggt tcatcaagtt 120  
 gatgtggctg atgcaacaag cgtagcttct ctggcagatt ttatcaaate taaatttggg 180  
 aaacttgata ttctgggttaa caatgcaggg attcttggag ctgtaattaa agacactg 238

<210> 19850

<211> 239

<212> DNA

<213> Glycine max

<223> Clone ID: 700956309H1

<400> 19850

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 agatggactt gatgaaactg atgatgagt attacaaggt cgagatgatt aatgatggaa 180  
 tgcaagaatt ttatgtgcaa ttccatggac ccaatgacag tccttatcat ggtggtgtg 239

<210> 19851

<211> 234

<212> DNA

<213> Glycine max

<223> Clone ID: 700956310H1

<400> 19851

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 aaacacttcg ccaaccttct gctgcatcag ttgtgagatg caaccccacc accccatcag 180  
 gcctcaccat cagagctggg tectatgctg atgagctcgt taagaccgag aaaa 234

<210> 19852

<211> 236

<212> DNA

<213> Glycine max

<223> Clone ID: 700956311H1

<400> 19852

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aaaaaaacaa aaacacgaaa aatcatccac cctctcacat tctctctctc tctctttca 120  
actaatatgg aaattgaaaa ccaagacaac actgtcagag aaatcaagcc aaagaacagg 180  
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<210> 19853

<211> 237

<212> DNA

<213> Glycine max

<223> Clone ID: 700956313H1

<400> 19853

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atcatatcgg tgaaagggat caaagggcgt ttgaaccgtc tcccctcggc ttgcgttggc 180  
gacatggtga tggccaccgt gaagaagggg aaacccgatc tgaggaagaa ggttttg 237

<210> 19854

<211> 239

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700956314H1

<400> 19854

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ccttgtctat cctgtagtat ccaccactgt tgaagatcag aagaactact acacccaga 180  
tccacatgct ggaagtcccc cctcaggctc acacagtagt actcctccat ctcatggcc 239

<210> 19855

<211> 240

<212> DNA

<213> Glycine max

063110

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cggcgctcagc	acagagccga	agctcttggc	ttccacacat	attttcggtc	ctgtcgattg	180
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<223> Clone ID: 700956316H1

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tcccacaaca agaaccgctt gccctacact ctctctgtgg atcatttggc agatggtaat   180
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<223> Clone ID: 700956317H1

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ggagaaattg	tccttggcct	.attaaaccct	gtttgatgct	tgttccaaac	ttgagaaata	180
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8456

<223> Clone ID: 700956277H1

<400> 19858

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 aaggcgcgct cctcaagggg aggatcacgc ttaacctgtt atggtaaggc agcttcaagc 180  
 caatccaacg ctccacaatc gttgacttca taaagtcgtt aagctcctcc ccggggggccc 240  
 cacttc 246

<210> 19859

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: 700956245H1

<400> 19859

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 gagactgaga cgttcgcttt tcaggccgag atcaaccagc tcctcagtct aataatcaac 120  
 accttcaca caacatag 138

<210> 19860

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700956246H1

<400> 19860

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 ttccgagcat ttggcgcgga caacgatggc cgaatcacgc aggcagagct aggaggaatc 180  
 ttgggggtcac tcgggtacaa ccctagcgag caagaagtta gggcaatgat tgaacacggc 240  
 gacaagaaca 250

<210> 19861

<211> 251

<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956247H1  
  
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 catggcacat gcagctatca cgtgcgggca ggtgacgaat agcctgatca attgcatcgg 180  
 ttacctccag aacggaggaa cgccgccgtc gggatgctgc aacggagtga agagcctcaa 240  
 tgccgccgcc a 251

<210> 19862  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956248H1  
  
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 cagattttca tgctcctcct ttcattaaat taaagaacag tttctaggta tggaaactct 60  
 ttcatatggg tcagcaccat gctgccaaagt tgtgaactca aagtggaaat tagttgaaaa 120  
 gagtttgagt tcacgtcaat caagagtttc ctctatagga aaacttggag tttattacac 180  
 aggtactatt tctgcatgtg cgctgtgag attttatgag atgggtacta ggggtgcagct 240  
 aagaagctca aa 252

<210> 19863  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956249H1  
  
 <400> 19863  
  
 tgatgagttt ttgaaaccta ggattgcaga ttttggactt gctaagggtta ttcaggccaa 60  
 cgttgtcaag gattcctcca ctcatgtcat tgccggaacc cacggataca ttgctcctga 120  
 atatggctac acgtacaaag tgaatgagaa gagtgatgtg tacagctttg gagtgggtgtt 180  
 gatggaacta gtaactggga aaaggccaac tgaaccagaa tttggggaaa ataaggacat 240

002220" E F F E 550

agtgagctgg gttca

255

<210> 19864  
<211> 247  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956250H1

<400> 19864

gtgcttttga cagttaagcc acaatatgga ttggtgaga aggggaagcc agaacaaggg 60  
gatgaagggtg cagtgccacc aaatgcaaca ttgcagatta ctcttgaatt agtttcatgg 120  
aaaactgttt cagaagtaag tgatgacaag aaggtcataa agaagatcct caaggaaggg 180  
gaaggatatg agcgtccaaa tgagggggcc attgttaaag tgaaactaat tggtaagcta 240  
caagatg 247

<210> 19865  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956251H1

<400> 19865

gtgcccacag acaataaccc tttaataata ataaaaaat ctcggtctgt tttttttctc 60  
ttctttttat ctctctctct cacaatttc tttccctttt gttcactcaa aagagcagat 120  
agggacaaga tcccggaaag gcgagccaac gtcagagaga ctcatcagtt ctcaactcgt 180  
cggcgctttt gctttgcttt gcttcattcc tttcatcgtc atcataaagt tcgttccttt 240  
ctcagttttc 250

<210> 19866  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956252H1

<400> 19866

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gcttgaccg ttttgggaga tcacggtggc gagggcttgt cgctctggga ggctcttccc 120  
tctgtcgccg tcgtcggtgg acagagttca gggaaatcgt cgggtgctaga aagtgttgtc 180  
gggagagatt ttctgectcg tggatctggt attgttacac ggaggccact agtgctgcaa 240  
cttca 245

<210> 19867  
<211> 247  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956253H1  
<400> 19867

caaagagaca attcaactta agagatcaat atggccacca ccactaccca gcctccctct 60  
aatatctgtt ttttccttct gttgttgctt ctagcacact ttcatttggg cataagccaa 120  
cttgagctga attactactc taaaagctgc caaaagctg aagagatcat caaggaacaa 180  
gtcacacaac tatataacaa gcatggaaac actgccgttt cgtgggtcag aaatctcttc 240  
cacgatt 247

<210> 19868  
<211> 251  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700956254H1  
<400> 19868

gggagactga atccagaaac ctacaaattt tttgatgcgg ttgagaagca ttatggaatt 60  
cacattgagt acatgttccc tgatgcggtt gaggttcagg cattagtaag aactaaaggg 120  
ctctttctcat tttacgagga tgggcatcaa gagtgcctgc gagtaaggaa ggtgaggccc 180  
ttgaggagag cccttaaggg tctcaaagca tggatcactg gacagagaaa agatcagtct 240  
cctggtacta g 251

<210> 19869  
<211> 176  
<212> DNA  
<213> Glycine max



<223> Clone ID: 700956255H1

<400> 19869

ctcgcagcag ctgatatctc atgttggttct tgttcctaac aaagtagcat ctaaaaccat 60  
ggcatcttca ccggacacca gcaaaaccat aaagctgatg cgttacaaca gctacctccg 120  
cagactcaac agcttcaaac tccttaagac atccttcac ctcctcctcc tcgtct 176

<210> 19870

<211> 130

<212> DNA

<213> Glycine max

<223> Clone ID: 700956258H1

<400> 19870

gatcgctcca tgaagctcat tgcggagctt ccagaatgca gcacgcttcg agttcctaag 60  
atttacacga tttttggtgt tggtgggatg ttgaagctgt tggctggatc atatttgctg 120  
gttataactg 130

<210> 19871

<211> 246

<212> DNA

<213> Glycine max

<223> Clone ID: 700956259H1

<400> 19871

caagacactt acttccaaag atcgatttga gatgtgggga gatggattgc aaacaagatc 60  
cttcaccttc attgatgagt gtgttgaagg tgtactgaga ttgactaaat cagacttccg 120  
ggagccagtg aatattggaa gtgatgaaat ggtcagtatg aatgagatgg cagagattgt 180  
tcttagcttt gaggataaga atataccaat ataccatatt cctggcccag aaggtgttcg 240  
gggccg 246

<210> 19872

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700956260H1

<400> 19872

ctgatcgcctc cctgagagag ctcgtcgcgg cggttgacaga agaagattgc aagatgaagt 60

tcaacatcgc gaatcccacc actggatgcc agaagaagct cgagatcgac gacgatctga 120

aactgcgagc attttgggac aagaggatct cacaggaggt catcggagat gcactcgggtg 180

aggaatttaa gggctatgtc ttcaaaatta ccggagggtc gtcacaaaca aggatttcca 240

atgaagc 247

<210> 19873

<211> 248

<212> DNA

<213> Glycine max

<223> Clone ID: 700956261H1

<400> 19873

aaaaatgaaa gcccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60

ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc accatgtttc 120

aacattcaac agaagccttt ttcttccac ttttctcttt ggagttgggtt cttctgctta 180

ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240

tagacagc 248

<210> 19874

<211> 246

<212> DNA

<213> Glycine max

<223> Clone ID: 700956262H1

<400> 19874

ggaatgcagg acattctcct gtttacttgt tttcatctag agtgaacgac ggaatttgtg 60

attgctgtga tggaaccgat gaatacgatg gtcaagtaaa gtgtccaaat acctgctggg 120

aggctggtaa agttgctaga gacagactga aaaaaaagat tgccacttat caagaggggtg 180

tcaaattgcy aaagcaagaa attgaacaag ctaaagtagc tatggagaag gatgaggccg 240

aacttt 246

<210> 19875  
<211> 246  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956264H1

<400> 19875

tggccacttt cttcacccaa acctccttcc cctccactc tctctccaaa actttcgata 60  
cccatcttcgc accatccacg aaagtcaacg tatttgcgaa cttcccggcg aggaggcacg 120  
tggtgggttcg agtttcgaac gcgctgatcg aaccagacgg agggaagctg gtggagcttg 180  
tggtgagggg taattcagaa agagacttga agaagggtga ggctctttcg ttgccgagga 240  
tcaagc 246

<210> 19876  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956265H1

<400> 19876

ctagagcgag aaagtgagag gagagagaaa gtagcagatc ctccatggcc tccaccaagg 60  
aacgtgaaaa cttcgtctac gtcgccaagc tcgccaaca agccgaacgc tatgaagaaa 120  
tggtggaagc aatgaagaat gtggcgaaact aaacgtggaa ttgacggtag atgagcggaa 180  
ccttctgtcg gttgggtaca agaacgtggt ggtgctcgt aggccttcgt ggaggattct 240  
ttcct 245

<210> 19877  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956266H1

<400> 19877

gccgaggagc atgtgttttag ccaccactgg atccgcatga ttaattctgt ttctgataac 60  
gtagcgaaga agagaaaaag ggtaagtagg aggacgaaac gatggggttag aggatcttat 120  
gggacggaat tttttattgc atgtttagc gatgagtatt gagacagagg gagcatttac 180





<210> 19884  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956274H1

<400> 19884

aaagaatgta actggcatct accactactg gcaggaaaag aacatagacc gaacattgtg 60  
 gaaactcggg accttgccac ctggactgct gacattttat ggattaactg agcccttgga 120  
 tccatcatgg catgttttgg gttttggcta caccaatgtt gatcctcagt tgatagagag 180  
 gggagctgta ttacatttca atgggaactc caaaccttgg ttgaagattg ggattgagaa 240  
 gtaca 245

<210> 19885  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956275H1

<400> 19885

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 tcattaaaat gttgcgagag aaaaacaaaa cagaaaaaaaa attcagttaa ttattaaatt 120  
 ttgttatggc tttccacgac catctccagc acgagatagc gttccagcgt ttcacggagg 180  
 agcaagagtt gaacgagaat agagacatgc aacagaggct cccacctccg acatggctca 240  
 acaacg 246

<210> 19886  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956244H1

<400> 19886

cttcagata gtcagcttca aataaaaaat aatttgcaag ccaaataaca gaacgtgttg 60  
 cacgcattag ttacttatgg gatgagactt gcctcactaa aatgcattga accacctaaa 120

ttggatgcta atagaata

138

<210> 19887  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956207H1

<400> 19887

gaaagtttgt ggcggatgga gtgttcttcg ccgaactgaa cgaggttctg acacgtgagt 60  
tggcggagga cggttactcc ggcgtggagg ttatggttac gccgatgcgc accgagatta 120  
tcatcagagc caccagaacc caagccgttc tcggtgagaa ggaaggaga attaggaac 180  
ttacctcagt ggtgcagaag aggttcaaatt tccccgagaa cagtgtcgag ctttatgctg 240  
agaaggtcaa ca 252

<210> 19888  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956208H1

<400> 19888

tcaattataa gcatggggtt gtggaacaca acgaatgcag tgtcttgccg ctttcacaag 60  
tttggtgatg accaaaagaa tctgggtcttc caaggtgatg ccacgtcttc ttccaggggc 120  
atagtactca caaagttagt acggtggagg aataccagtg ggtggcagtg tggggagagt 180  
gttatactct tctccagtgc acctttggga aagctctaca gtggtcgcaa gctttgaaac 240  
cgacttcacc tttt 254

<210> 19889  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956209H1

<400> 19889

gaagaagaag aagcactgtg attctgattc tctctccgtc gttgcaactg gtgcctccgt 60





attcagatct tagggtttca attttttttt ctgtggagcc ccattggcca tagccgccag 60  
ccagagaaga gtagaagcct tcgatactag gttttctttc ccccccttcc tcccaaatacg 120  
gacctttttc gcttctcgat tcgcttccgt agccgggcca tttgaggacc cagaaaagaa 180  
cgaaccgaac gttttatatt ttttcggata atcaatcgaa gatgtctcgt tgcttccctt 240  
tccccctccc tggg 254

<210> 19893  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956213H1

<400> 19893

cttgcttcca cttctgattc agaaactctt aggcattcca cattctcaac cccggaccct 60  
atgagcagag cgaaaatgac aaccaccttc gcgaccgtcg caggactcgg tggcgatta 120  
ctgtcatcca cctcatctcg tctcagctca gggtttgtga aatccccagt gattgctagg 180  
aatcccttga ggcaagctgt ggcaatggga aatgggagga ttacatgctt tgagaggaat 240  
tggctgcggg caga 254

<210> 19894  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956214H1

<400> 19894

cccaatctca atctcattca ttctccaac tccaaaccag attccccctt ctctctctct 60  
ctctctactg aacaaaaaga aaaagtgaga gttcagaatt tttaaattct acctatttaa 120  
ctacctcgca taaaaattca cgtaacattc tcttctgtgt cctaatacga actcgacaaa 180  
attttgttat agtgatgtga tgtcatttta gggtttttga attgcatggg gtctgggaaa 240  
cgatgacgat gacg 254

<210> 19895  
<211> 252  
<212> DNA



<213> Glycine max  
 <223> Clone ID: 700956218H1  
 <400> 19898  
 ctttctcttt tgcattctct ctgaattcgt atgccatgga gacacccggt aacgagcatg 60  
 tgggtgggtgg cgcagaaccc aacgacgtcg ttacgccctt ttcccacaga gaagaaccgg 120  
 acaattccca acccctcacc ggcgacggtg ccagtcccgg aaagatattt ataggtggtt 180  
 tagcgagaga aacgaccatt gcccaattta tcaagcactt tggtaagtat ggtgagatca 240  
 cggattcagt ta 252

<210> 19899  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956219H1  
 <400> 19899  
 ggaaagtcaa ggtagaggcc ggtttcttgg atctgtacac ggacagggag ccagggtgcg 60  
 ggtactgtaa gtactctgcg agggaacagg ttttgggaga ggtgaagcgg ttgatggaga 120  
 agtatgcgga cgaggaggtt agtgttacga tagccggaca tagccttggg agtgcgatgg 180  
 cggatttgag tgcctttgat attgttgaaa ctgggggtgaa tgtggggaag gatgggagaa 240  
 aagcgcatgt tt 252

<210> 19900  
 <211> 98  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956220H1  
 <400> 19900  
 gaaatgtgga agggcaacaa tggagcccat tgaatccgaa tcagttagtt cctccgccaa 60  
 agaccacgaa gtgggtgaac ctgcttcac tgttcacc 98

<210> 19901  
 <211> 251  
 <212> DNA

<213> Glycine max

<223> Clone ID: 700956221H1

<400> 19901

gggtgtttttg aaacgtgctt aaaccgtgat ggggtgctgtt gtggagtgtt acgcgccgcc 60  
tcgcacggcg gtgctgtccc tcaacacgct gccgttaggg ttccgtttcc gtcccaccga 120  
tgaggagctt attgactact acctgcgtc gaagatcaac ggaaatagt acgatgtttg 180  
ggttattcgt gagattgatg tctgcaaag ggagccttgg gacttgctg atttgtcagt 240  
ggtacggaac a 251

<210> 19902

<211> 231

<212> DNA

<213> Glycine max

<223> Clone ID: 700956222H1

<400> 19902

ggagtgtcca attgaggggtg aacaatgctg aattggctca aagatctgca ccagcaatgg 60  
aacatgggtg gaagttacct agagtctcaa gcagtccatt gctcaaaaca cttggatctc 120  
aaatgggtgc ccaagagaac aagaattcag caattcatca ggaacaagga gaaattggaa 180  
ggggcaaattc cccaggagga tccacaattt ccgggcccaac cccaaattgg g 231

<210> 19903

<211> 103

<212> DNA

<213> Glycine max

<223> Clone ID: 700956223H1

<400> 19903

gtttttaaca tgggtcaattt aagttgcatg tgcccatgat gcattagcac catgcatgta 60  
tgtttaattt aaacataata atatatgcta tattgaggtt tta 103

<210> 19904

<211> 251

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700956224H1

<400> 19904

cgtcacgnag acatcttcgc gagcgactcg atcgagctgt tgcgccagtg cggaatcgac 60  
ttcaagaaga acagcgagaa tggaatcgac gtgaaccggt tcggggagct cctcatgtcc 120  
tccgggatcg tggtgaacga ctccgtgcgc tgggttacct tccacagcgg ctacgatttc 180  
ggctacctcc tgaagctggt gacatgccgg agcttgccgg acacgcagge cgggttcttc 240  
gatctgatca a 251

<210> 19905  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956226H1

<400> 19905

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gccactgccca cctccgccgc caccggcaat cccaccgctt cgcctcctcc gctcgctttt 120  
cttctcggtg ctccccctct cgctgctgcc tcggacgacg tcgttaccca acctgaaatt 180  
cacgcgctga tttcagacga agagcacgat cacgagcatg aacatgacga tgacctcgag 240  
cacgagcacg at 252

<210> 19906  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956228H1

<400> 19906

cgcaagtatt cctccaatct ccgtcgatca ccaccaccat gtcgtggctc ctccgatcca 60  
ccaagtctaa gctcctctct tcctcttcct cttcttctct ttctagaacc ttccccctctc 120  
tccctcgccc tcagatcgga gccatctctc ccctccccga tcttttccac cgcaacaccg 180  
ccattatgcc tttcggaag gaaaacgctt ccggtggaaa cttgaccggt cttcccaaag 240  
ttccccgcaa ta 252

<210> 19907  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956230H1

<400> 19907

ggcgagtagg gaagagcgaa gagtgaggag aatgggtccc aagggtttaa cctttctggc 60  
tgtgttaata tgcgtttcag cactgtcact gagtgttct gttgcggggg aagggaacaa 120  
taatggcctt gttatgaact tctacaagga atcatgccgt caggatgaag acatcatcac 180  
agaacaagtc aagcttctct acaagcgcca caagaacact gctttctctt ggctcaggaa 240  
catcttccat ga 252

<210> 19908  
<211> 112  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956231H1

<400> 19908

cttaagttag aaggacttga gttgttataa ttaacggaag gaacccatat acaactaaga 60  
agaagatgaa gaagaagaag gtctctcaat caaagtgatt gaaaagaccc aa 112

<210> 19909  
<211> 180  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956233H1

<400> 19909

tcacattcac cctttgttct ttgtgtctac cctgtaaag gaggaggaga aacagagagg 60  
caaagggcac agactattgc tgatgccatc accattacaa ggccacataa caccatttct 120  
ccacctcggg gacatcctct tctcaaaggg cttctccatc accattctcc acaccacata 180

<210> 19910  
<211> 250

<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956238H1  
  
 <400> 19910  
  
 ggatccccct gtgggttgca cgcgcgaccg accctgatct tctgtgaagg gttcgagtga 60  
 gagcatacct gtcgggaccc gaaagatggg gaactatgcc tgagcggggc gaagcagagg 120  
 aaactctggg ggaggcccg cgcgatactg acgtgcaaat cggtcgtctg acttgggtat 180  
 agggggcaaa gactaatcga accgtgcagt agctgggtcc ctccgaagtt tccctgagga 240  
 tagctggagc 250

<210> 19911  
 <211> 225  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956239H1  
  
 <400> 19911  
  
 tcgccgaact gaacgaggtt ctgacacgtg agttggcgga ggacgggttac tccggcgtgg 60  
 aggttagggt tactccgatg cgcaccgaga ctatcatcag agccaccaga acccaagccg 120  
 ttctcgtgga gaaggggaagg agaattaggg aacttacctc agtgggtgcag aagaggttca 180  
 aatttcccga gaacagtgtc gagctttatg ctgagaaggt caaca 225

<210> 19912  
 <211> 118  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956240H1  
  
 <400> 19912  
  
 ggataggatt ggggagagag gataagacat taacagcaac actgagctct aactcgaatg 60  
 gcggttgac taacgagttg catttcctca tctcggctc tagtctccac agttgaat 118

<210> 19913  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956204H1

<400> 19913

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tcttctgtaa cgaagttctc aacattgtcg acgatgtgct cgacgaagct ttcaatttct 120  
tctaccagga cgcattccacg aagctcaaca tcgaaggcac ccaaagggtcc caggatctga 180  
aaaaggggtgt tgattgcgtt cggctgaatg ttcaatctgt ttgcgacaaa caacttgctg 240  
cttgggagag tt 252

<210> 19914

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700956241H1

<400> 19914

ctgaaaatga ttcttcttta cagtaaattg cattcagtat gctaagagat tatgacaatt 60  
acgtgttatt atactggcaa ataatagaat tgcaggctaa caaacttata tattgttagc 120  
attacataaa aaataactga tggttaaggca gggggattta taagatatta tttgccagta 180  
taataacacg taattgtcat aatttcttag catttgaaat gccatttact gaaaatgatt 240  
cttctttaca 250

<210> 19915

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700956243H1

<400> 19915

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caattgctct ggggctcttg gcgatgctcc tcttcttcat tgcttcttcc tcttctctc 120  
acctcgttcg tagattccga tgacgccgac gacgcgatct tctacgagtc attcgctcgag 180  
gattttgacg gacggtggat tgtgtccgac aaggacgatt actacggtgt ctggaagcat 240  
gctaagagtg 250



<210> 19916  
<211> 260  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956162H1

<400> 19916

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tcattcttat aaacaactcc gtttgtcact ccgggggctt tagcaatcac tccctccgtt 120  
ttgcgttttg gattcattta tctgctgctt tatcttaaag gccaaagcat aaataacctc 180  
tctctctctc tctctctgtg agattgagaa tccgatcctt cgtttccgaa attctcgcca 240  
gatggacgag aacctgctcg 260

<210> 19917  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956163H1

<400> 19917

ctcgccatgt tccttatcaa gacatggaga cagacggctt tcggtgtttt tgggtacctg 60  
aatttcacca agctggctt ccttgatcat tctaagaaat tcaaccaga ggacatggaa 120  
ttacgaatac caggaagaa ttgcattgtt actggagcta actctggaat tggctatgca 180  
acggctgagg gtcttgcaaa gcgtggcgca actgtctatc ttgtatgtcg taataaggag 240  
agaggagagg ctgctct 257

<210> 19918  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700956164H1

<400> 19918

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<223> Clone ID: 700956167H1

<223> Clone ID: 700956168H1

<223> Clone ID: 700956169H1

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actgagtcct tctgttgccg gggaagggca aaataatggc cttgttatga acttctacaa 120  
 ggaatcatgc cctcaggctg aagacatcat cacagaacaa gtcaagcttc tctacaagcg 180  
 ccacaagaac actgctttct cctggctcag gaacatcttc catgactgtg ctgttcagag 240  
 ttgtgatgct tcaactgttg 259

<210> 19922  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956171H1

<400> 19922

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 ggcaccccta tgactaatga cattactgat aacaataccg aggatgccgt cccctgcttt 180  
 gctctgtcga aaaatgattc ttatgtaatg tcagcatcag gagggaagat ttctctgttc 240  
 aatatgatga cttttaaga 259

<210> 19923  
 <211> 178  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956173H1

<400> 19923

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 ggggtgtgatg aaagggttat cactatctca gggtctgaaa aagagactga agaagataac 120  
 actgaacagg gaaaggaggt taatgataat gatgatggtg gaagcgaggg gaaggatc 178

<210> 19924  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956174H1

<400> 19924





<210> 19930  
<211> 237  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956184H1

<400> 19930

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aacaatgctg gcattgcatg gcactcgcca aaggctgcta gtggttggtg ttctctctga 120  
tatcttcaat gttatgatgt atgtctcccc tcttacaatt atggcaaagg ttataaaaac 180  
taagagtgtg aaatacatgc caatctggct ctctctgggt aacttcctta atgggtgc 237

<210> 19931  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956185H1

<400> 19931

ggatttcgca cgtagctagc tacagaagac aaaggagcct tgagtctcga gatcttgta 60  
gatcggaacg caacctcaac ttccaccgag attgctttgt gtgttctggg aagggaagtt 120  
actggcatag aggttatgga aaagaagcca aatggtgcca tagcggcttc aaatggcagt 180  
ttaagtgata gaatgcgtgt ttctcccaa attgcagcaa tggttcaagc aatggatcat 240  
gagataaagg aatctgct 258

<210> 19932  
<211> 189  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956186H1

<400> 19932

aaaagaagaa ggtgtggggg agggaagaaa tttgaagcaa cagcaaagaa agtttccaat 60  
ttgatgctta ttttttacca tatggcaatg tgagtccatg tcacttgctt aggccatcac 120  
ctaccactga taattccatg ccttggtatt aaccaacca caccatttcc ctcttctcac 180

aatttcatg

189

<210> 19933  
<211> 270  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956187H1

<400> 19933

agtggacttt atattcaaca agttttctgt caaaccggg tcagaggagg ctcatatcat 60  
gaagaatact attagttagt gtgaagagg tggaatcaaa ggagaggaaa agtactgtgc 120  
cacttcgctt gaatccatgg ttgatttcag cacttccaag cttggaaata atgttgaggt 180  
tgtgtccaca gaagtggaca aggaaacggg attgcagaaa tacaccgtag caccgggagt 240  
gaagaagtta tcaggggaca aggctgttgt 270

<210> 19934  
<211> 261  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956188H1

<400> 19934

cccttctctt atattcaaaa tcacgttcac ctttctccct tcatctatct cacaaaccat 60  
gagcacaatc caccaaacac aactcgttg cgaagggtgaa gacaaagagt tcagtttctg 120  
gggtcatca aacatcatac cttctgaaaa tgattgtgat caaccacaag gtaatgaatc 180  
aaggctcaaa aaggaagcat actttggaga aacacaccaa agaaaaagcc ttaaataatga 240  
gtattcacgg ttttgttcaa c 261

<210> 19935  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956189H1

<400> 19935

gttttcaagt ggaaaaaacc tggagatccc cagagtttg agcaatgaga tttggatgcg 60







ccaaaacaat ttgctcacia aggaggaaaa atggcacctt tcgtttccct ctctttgttg	60
cttctctttc tcaaccaccc cctcctttcc ctctcaacca accctgaagg gaacgctctg	120
catgctttga gaagcaggct ttctgatccc aacaatatgt tgcagagttg ggaccaaca	180
ctggttaatc cctgtacttg gtttcatggt acctgtgact ccaacaatca tgtgattcgc	240
ttagacttgg gcaa	254

<223> Clone ID: 700956201H1

tcacattcac	cctttgttct	tttggtctac	cctgtaaata	gaggaggaga	aacagagagg	60
caaagggcac	agactattgc	tgatgccatc	accattacaa	ggccacataa	caccatttct	120
ccacctcggt	gacatcctct	tctcaaaggg	cttctccatc	accattctcc	acaccatata	180
c						181

<223> Clone ID: 700956122H1

gtttccaact	ttccttcttc	ttcttccttc	cttcctcggt	tcgttaacct	tctaattcaa	60
ttcattcctc	acttcctttt	ccaaccgaac	cttttctccg	ataatcagag	agagataata	120
atggattggg	gaaacgtaac	cgcgagggat	ctgatcgacg	cgctccgtga	ggtggattgg	180
tcgtcgccgc	cgcgccctct	gtcggaattc	ttctcgcgat	tcaccgttcc	caggtcttcc	240
tccaaatgga	acagccgcct	caaattgc				267

<210> 19944  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956124H1

<400> 19944

aaacaccagg ctttcatcgt ggaaggtgac cttaacgaca cccccctgct tgagaagctc 60  
ttcgacgttg tcccccttcac ccacatcctc cacctcgccg ctcaggettg cgtecgctac 120  
gccatgcaga accccaatc ctacgtcacc gccaacattg ctggcttcgt catccctcct 180  
cgaggctgcc aaatccgcca atccccaacc cgccatagtc tgggcttcat ccagctccgt 240  
ctacggcctc aacacccaaa accct 265

<210> 19945  
<211> 266  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956125H1

<400> 19945

atagtataat actacccctt cttgtgtggt gttcatattc ttcaaagtcc aaagtagctt 60  
ctcactgcag attctttcct ctttttttat agtacagtac taggcatttg atgaggacat 120  
aacggaaggg cttatataag tttatgtttc aaatggcagt attgatagga taaagattga 180  
gttttcgtta attgtttacca ggtgatacct aaatggtaag ctgacctaag cgaaaatttg 240  
ttccattctt tccaatttct taaaag 266

<210> 19946  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956126H1

<400> 19946

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gtggccaccg ccgcgatggc ggggccgcgt ccgacgccga cgacatcctg atccgtcagg 120  
tggtgccaga tggtggcgaa gccgaagagg aggacaacct gctgaacgcc gagcaccact 180



ggaacacacc aaagttttct cccaaaccaa aacattcaat taggaagagg gttggacatt 60  
 ggtgaaccaa accagtttgg tgcattgaat aattccactt ctactcttc agcagcattt 120  
 gagagcatca acatgcagaa cccaaagagg tttgctgcac aattgctacc agactttgtg 180  
 gcctaaataa gacattgaag aggggataag atcatagttg gtgacattgg ttatatgggt 240  
 ctctcatatt ttcttctaata cca 263

<210> 19950  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956133H1

<400> 19950  
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 ctattgagtc atcatgggta aggaaaagac tcacatcaac atcttcgtca ttggacatgt 120  
 cgactctggg cagtcaacta ccactgggtca tttgatctac aagcttggag gtattgacac 180  
 gcgtgtgatt gagaggttcg agaaggaggc tgctgagatg aacaagaggt cattcaagta 240  
 tgcctgggtg cttgacaagc tca 263

<210> 19951  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956136H1

<400> 19951  
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 caccatacct tgttcagatt ctgctcactt tcaccacaac ggctttacta tttaccgct 120  
 ttctgttttcg tgtcaccgca aataatgaaa ggaggtgttc cctgtatcca ctctcgtca 180  
 gggaagatct gaagcagtgc tagctgtca cgctctgtaa tggacgtgag gttctagatc 240  
 gc 242

<210> 19952  
 <211> 261

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956137H1  
 <400> 19952  
 atggcaacag aaacaaaagt ggcagtatta ggtggcatca ccgaagtgca gggagctgcc 60  
 aacagcgtcg agatcaacaa tctcgctcgc tttgctgtag aggaacaaaa caaaagagag 120  
 aattcagttc tggagtttgt gaggggtgatt agtgcaaagc agcaagtggg tgctggagtg 180  
 aattactaca taacattgga agcaaaagat ggtgagatta aaaatgagta taaagcgaag 240  
 gtttgggaga gggaatccca a 261

<210> 19953  
 <211> 137  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956138H1  
 <400> 19953  
 gtttttaaca tgggtcaattt aagttgcatg tgcccatgat gcattagcac catgcatgta 60  
 tgtttaattt aaacataata atatatgcta tattgaggtt ttgaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaacaaa 137

<210> 19954  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956139H1  
 <400> 19954  
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 acctcattag tggcatagct ccaaattggc ttaactttca caacaagtgt ttattccaaa 120  
 aggggtgtgct gtctcatggt aacaagttaa ggggtggtcag aaaaaacttc actcccaaag 180  
 gcagcatgtc agcatcatca tcatcatcat ctaggcctgg ttctcagcca aggttcattc 240  
 agcacaagaa ggaggcattt tgggt 265

002220" E.F.F. 0300

<210> 19955  
<211> 153  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956140H1

<400> 19955

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ccggttttcc ggtgagctat agcagttcaa caacgtgttc ggccaacgag gcttcctacg 120  
ctccagtccc acctccccag cccaaacctc ttg 153

<210> 19956  
<211> 184  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956141H1

<400> 19956

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agtggttggg ctctgcaaaa attagctgca tgagctgggt tgggaaactc cgtttattct 120  
ccaatttcaa tccctttcac ttcattactt ctttggttaat ttttaccctc catttttcac 180  
ccca 184

<210> 19957  
<211> 261  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956142H1

<400> 19957

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gctacagggg ttattttcaa ggatgaaaat gggaagcagc atgaggcata tctaggaaat 120  
gacaggcaga gtgaggtgat tgtgtccagt ggggcacttg ggactcctca attgctattg 180  
ctgagtggaa ttggcccaaa agcagagctt cagaaattga acatccctgt tgtgcttgat 240  
aatcaatttg ttgggaaagg c 261

<210>	19958
<211>	262
<212>	DNA
<213>	Glycine max

<223> Clone ID: 700956144H1

ccaagtgttg ctatcaacgg aggagcgccc acactggaaa aaaaaatctc cggcgattgt	60
tccaccgaac ctcttcggtt ctccgccccg atcctggatt caatcgtcga ttccagtttc	120
tcattctagt tgatcgagtt cgtaggtttt tatggtgctt cgttggacac acggtggcga	180
tttgcat tacgtaggggtg gtgggtggcac cgtgaattat tgagtctgat tacactcgct	240
ttgaaaaatc gaagagagaa at	262

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700956145H1

ggcaatggca atggcaggga ggagaatgat gtggcggggg agagctgccg ccaccgtcag 60  
tccccgaggc ggtcgtctca gggaaggaga aggactccaa gtagggaaag agaccaatcc 120  
aatggcagag aaaggggaagt gagtagatct cctggtagaa gatcatctga caccaccaat 180  
actacaaatg caagcaacaa caacaacaac acaagttcta ggccctgggaa aatgggtgtct 240  
gttccagcca ctgtttcatc t 261

<211> 123

<212> DNA

<213> Glycine max

<223> Clone ID: 700956146H1

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ttctttctcg aagggtaaag gataaaggga tgatctacac agcaattgac acgttcacaa 120  
caa 123



[illegible]

<400> 19961

<210>	19962
<211>	264
<212>	DNA
<213>	Glycine max

<400> 19962

<210>	19963
<211>	263
<212>	DNA
<213>	Glycine max

<400> 19963

84.93

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 cactcgcctt ctttagtcac tggacaactt cttgggttgg atgttggcag tgttcttgaa 240  
 gttaccaact gcttcccctt tcc 263

<210> 19964  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956154H1  
 <400> 19964

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 atacagtgtc ctggttgaca atagagagag agattccgga agcatgtata cagattggga 120  
 tattcttcct ccacgaaaaa tcaaagatgt caaggccaaa aagcctaaag actgggaaga 180  
 aagagaatac attgaagacc ctaatgatgt caaacctgag ggatatgatt cgatcccaag 240  
 agaaattcct gacccaaatg ctaa 264

<210> 19965  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956155H1  
 <400> 19965

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 gctcccctgc tgctggacaa aggcgagggg ggcggcgctg gtgacggaga acggcgacta 120  
 cgtggcggtg agggagctga aggaggtgaa gaaggtgttc tggattgaga cgaagagagt 180  
 gtggcagatt gcgatgccca ttgttttcaa catatggtgt cagttcgggtg tgaattccgt 240  
 gaccacaatg ttcgttgga 259

<210> 19966  
 <211> 129  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700956157H1

<400> 19966  
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 ctgttaagaa agcgtgatt tctgtatctc attgtcttca agattgtccg ccattatgca 120  
 aagttccag 129

<210> 19967  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956159H1

<400> 19967  
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 tattactgct gtcattccat attttggata tgccagagct gatagaaaga cccaaggacg 120  
 tgaatccatt gctgccaagc ttgtagcaaa ttttaattaca gaagcaggtg caaatcgtgt 180  
 acttgcttgt gacctccatt ctgggcagtc catgggctat tttgatattc cagttgatca 240  
 tgtgtatggc cagcctgtta 260

<210> 19968  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956121H1

<400> 19968  
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 ctgttgaaga acatgtgggt catgaagatg catatgaaga cctagaagat tattatcagt 120  
 acgaggatga tgatgatgat gatgatatgg atgaagttta ctatggtggt tcgtccagtc 180  
 ttcgggttat tggcaaccgt agatggggag ataatggtta tgtcagggct ggtcgtcaag 240  
 aagctcggcc agtccatcgt ccaaac 266

<210> 19969  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700956083H1

<400> 19969

atcacaattt gtgcattgcc tegtgtcctt tttcttcttt gcttgccaaa aatcttacac 60  
acacaggtat ctagcaaata ggttctcacc agcaagaacc atggctattg gagaatggga 120  
aaccgcgggt gttgaccaag gagaataggc atggccgttc tgcacacagc atgtcctcca 180  
cgtctttgcg caagaagtct agccgaactc ttgtctccaa gcttccatgt gccacactca 240  
gaagcatcc 249

<210> 19970

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: 700956084H1

<400> 19970

gaaaaatatt aaataaaacc gccacaaatt tctccatagt tatgggcact tccattctcg 60  
acgccctgaa cgttcgcgtg gaagggtccg gcgacaagta ccttgctctg gccacaggct 120  
tcggcacgga ccaatccgcg tggcagcgcg tgctccctta cttcaccgc aactacagcg 180  
tcattctcta cgacctcgtc tgcgcgggca gcgtcaacct cgaccattc gactaccgcc 240

<210> 19971

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700956085H1

<400> 19971

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ggataaaccg tccttcacac ttatcattat tgtcatcctt tcttcttgta gaagggtcaat 120  
gtcatggatg atggctctgc aaaattaaaa ttcatccctg atcattttca agttccaaca 180  
tcaagtatag aatctcctga gagcagaaca tcatttatta cagaacctgg aactgatcaa 240  
tctccaagtt 250

095614-03200

<210> 19972  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956086H1  
  
 <400> 19972  
  
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 acctcgacgg tatgtctctc atctcccgtt gtcggtttcc gtacttcatg ctgctcgccg 180  
 tcgaagtcgt cagcctcctc cgcggcctca tctcgtcctc ctcaacttgcg ttcgtcatca 240  
 tcgcctatct 250

<210> 19973  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956087H1  
  
 <400> 19973  
  
 catcgttacc atggtcaaca agaatgaaaa ttgcagctgg agctgcaaag ggtctagcct 60  
 ttctacatga agcaaagaaa ccagtcattc atagagattt taaagcttca aacatcttgt 120  
 tagactcgga ttataatgca caactttccg attttggtt ggccaaagat ggtcctgaag 180  
 gagatgacac acacgtttca actagagtca tgggcacaca aggctatgcg gccccagaat 240  
 acatcatgac 250

<210> 19974  
 <211> 210  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700956088H1  
  
 <400> 19974  
  
 gtgctatgtt ttttttctgc tttcgtatga caagtgtata attctcctga ataccagca 60  
 gaagctatca acaaaagcca gaccatgtct ggaccctgt ctccaaagac atctcttgaa 120  
 aagagtgacc gtgttggttc attgaagaaa atgctgcgga attctctaac aaggagtacg 180

aagcgagcag cagcaaggtc atgtcggttg

210

<210> 19975  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956089H1

<400> 19975

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atattgtttg aaaaagatgt gactcgtgag tacttggcga gttggcatgg ctctatttg 120  
cttttaggtg ccacccccag aagtagccta ggccatccta tgtaaattgc gaacttggtt 180  
ttacttttta gcccttattt caaaattcca cacacttctc tttcagaatc ttaccaatg 240  
ctataaatt 249

<210> 19976  
<211> 250  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956090H1

<400> 19976

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cttatgctac cttgcttatt gaaggaacc atgttcgatt aagtggtcag gatgttgaaa 120  
gaggaaacttt tagtcaccgc catgctgtag ttcacgatca gacaacagga gagaaatatt 180  
gtcccctgga caatgttata atgaaccaag atgaagagat gtttaccgtt agcaatagtt 240  
cactttctga 250

<210> 19977  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700956091H1

<400> 19977

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caggaggcac tcgaagcata ggtgagagcg cttctccatc cagagataga aaggtttttt 120  
ctacatcatc aaccccaaag agtccagtat tggcctctga aacggacaga aagctcacac 180  
aagcttgctt gcttactgta atgtaatggt tatagagagt tagtatctat taaattgatg 240  
gaagc 245

<210> 19978  
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